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TRANSLATED FROM THE LATIN OF

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JAMES BONTIUS,

Physician to the Dutch Settlement at Batavia

ANNOTATIONS
BY A PHYSICIAN.

LONDON:
PRINTED FOR T. NOTEMAN, NEAR NORFOLK
STREET IN THE STRAND.

M DCC LXIX.

PREGACE

THERE never was a time when the peculiar circumstances of foreign chimates so much merited the attention of a commercial people, as, at prefent, the Natural History and Discases of the East Indies. Thefe being professedly treated of by Bontius, it was appre-I hended, thate attendation of that valuable without would be a work of public utility, calculated, not for the benefit of the faculty alone, but of all those who either relide in, or visit the oriental countries, as containing the most important precepts for the prevention of endemial

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A LMOST three years are now elapfed, bonourable gentlemen, fince first I devoted my medical labours to your excellencies; which on my arrival in your Indies, I began to exert with activity, to demonstrate my endeavours, that the emoluments you have conferred upon me should be productive of public advantage. What observations, therefore, I made in my practice through the day, these at night, when more disengaged from cares, I committed to paper, and now make public, as a small return for the many obligations I lie under to your excellencies, and which I never can fully repay. From the observations which appeared to me the most important, I have compiled this method of cure, and described the diseases

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Of a particular kind of Palfy, called, The

HE inhabitants of the East Indies are much afflicted with a troublesome diforder which they call the Beriberii (a word signifying a sheep). The disease has, probably, received this denomination on account that those who are seized with it, from a tottering of the knees, and a peculiar manner of walking, exhibit to the fancy a representation of the gair of that animal. It is a species of palfy, or rather a tremore for, at the same time that it impairs the sensation of the feet and hands, and sometimes even of the whole body, it induces a trembling. The principal cause of this discase is a thick, viscid, pituitous humour, which seizes the nerves in the night, when people, afer being satigued by the heat of the day, unwarily throw off their bed-cloaths. It is more especially the product of a rainy season; and such is constantly the state of the weather in this climate from the beginning of November till May.

In this disorder, the limbs are lengthened, not shortened, the phlegm infinuating itself into the joints so as to relax the nerves and ligaments. In general, the disease invades slowly: but upon a person's drinking a large draught of the Palma Indica when he is heated, the attack of it is, sometimes, extremely sudden; in the same manner, as we have observed in our own country, that when people had drank immoderately of beet or

The special or cocker mut-tree, whole lands adontain a milky liquor of a cooling quality, much drank of by the Indiana.

whey, when heated by furning of any other wildlent exercise, they have incurred the greatest danger, and even death itself and lemma test to

Among the chief symptoms of this difeate, is a lafficude of the whole body. The motion and fensarion, especially of the feet and hands, are langual and depraved , and, for the most part, a citillation is felt in these parts, similar to what feizes them in cold countries in the winters but with this difference, that the fenfation in the Barbiers is more painful. The speech is, formes times, fo much obttructed, that the patient call fearce pronounce a fyllable articulately a which happened to myfelf in this diforder, when fores whole month my voice was to weak, that people, who for close to me, could wish difficulty ander stand what I spoke. Befide these, there are many other fymproms, which however, all confirm the existence of a cold and viscid humour a main

The cate of this diforder is generally very tentions, the humour being difficult ito its follow. For the most part, however, it is not mostal, unless it seizes the minicles of the break and thorax, and thereby stop respiration. Lying imbed should be avoided as much as possible, and the patient ought to walk, ride on horseback, and use all the harder forts of exer-

cife; but to run he is unable. Strong, and even painful frictions are highly necessary, which are very conveniently performed by the Bengal and Maldivian slaves. Fomentations and baths made of the noble herb Logondi*, are also extremely advantageous. This herb refembles the water-pepper in the leaf, and is of a fweet and aromatic flavour. It is not fo much used in medicine as camomile and melilot, but, in my opinion, it excels them in its discutient and resolving quality. The feet and hands ought to be anointed with the oil of cloves and mace; mixt, however, with the oil of roles; for when applied alone, they are too caustic, and easily erode the skin. Belide these, we have, brought from Sumatra, an excellent kind of naphtha, called, by the Indians, minjac tannah (oil of earth), which, like the naphtha known in Europe by the name of ol perre, fprings out of the earth, or drills into lakes and rivers from the contiguous rocks. This foil is held in fo much effeem by the barbarians, that the king of Achen, the most powerful prince in that island, has prohibited the exportation of it under capital punishment; so that when any foreign vellel takes thelter on that

ble, and the position of the pole on horse of care-

coast in stormy weather, it is common for the inhabitants to bring of it secretly to the ship under night. This oil, when rubbed upon the parts affected by the Barbiers, affords wonderful relief. It has a heavy smell, but not disagreeable.

If the diforder is chronical and of long standing, nothing is more effectual than decoctions of china, sarsaparilla, and guaiac, which, by their mild and friendly warmth, attenuate the cold wiscid humours, and discharge them by sweat and urine. During this course, however, a proper purges should be interposed; among the best of which is the extract made of aloes and gamboge (vulgarly called, with us, gutta gamba) of which I shall afterwards give a description and add the land with the course of the course.

Bleeding is hurtful: for the fault lies not in the quality, but the quality of the humours: and who knows not the blood to be the fountain of heat, and the treasure of animal life?

corp dictions which procovered the desire and freeding which procovered the desired by the desired freeding of it under courtal punishment, so that

of the finest and most penetrating of all the bituminous species: but what is imported into Europe under that name, is faid to be a composition of the expressed oil of the cocoanut, and medicated earths.

should be administered; such as theriac, mit thridate, &c. joined with proper exercise *.

- Delication of the or or of the thicky

The Indians have a method of putting the patient into a hole dug in the ground, and covering him with fand up to his neck. This is performed in the middle of the day, and he remains there as long as he can bear the heat of the fand. Camphire and a decoction of guaiac-wood have been found beneficial in the Barbiers: but nothing is of so great advantage in the cure as a removal into another air; without which expedient, notwithstanding the use of the most powerful nervous medicines, the patient generally continues paralytic for some months.

This dilease is most violent and frequent on the Malabar coast, where, especially during the months of December, January, February, and March, it attacks those who imwarily seep exposed to the land-winds, which issue every morning, about fun-rife, from the neighbouring mountains; fuddenly seizing them with a painful sensation in the periofteum of the arms and legs. In some persons the pain abates as the day advances, and the air becomes warmer: but in others it continues for a confiderable time, attended with a weakness of the knees, and uneasy sensation in the calves of the legs and foles of the feet, especially on any attempt to walk. It is fcarce ever cured by medicine till after the thirting of the monfoon, unless the patients can be removed to the coast of Coromandel, or to any place on the eastward of the Balagat mountains, where, by the change of air, they quickly recover.

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CHAPTER II.

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Rhe disorder of the Spasm, almost unknown with us in Holland, is so common in the Indies, that it may be reckoned among the popular and endemic diseases of the country. The attack of it is sometimes so sudden, that people become in an instant as rigid as statues; while the muscles, either of the anterior or posterior part of the body; are involuntarily and violently contracted. A terrible disorder! which, without any primary defect of the vital or natural functions, quickly precipitates the wretched sufferer, in excruciating torment, to the grave; totally deprived of the capacity of swallowing either food or drink. There are, likewise, other partial Spasms of the limbs; but these being more

thor, it is probable that the unhealthy climate of the country adjacent to Batavia, and the inconvenience of removing farther, had prevented him from trying the effects of emigration in this disease.

parently recullary for presenting the confequences reliquity may

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People affected with this disorder look horribly into the face of the by-standers, especially (as often happens) when the cynic spasm comes on; and both the cheeks are drawn in convulsion towards the ears. A red and green colour is reflected from the eyes and face; the teeth gnash; and instead of the human voice, a rude sound issues forth of the throat, as if heard from a subterraneous vault; so that to those unacquainted with the disorder, the person appears to be demoniac.

The cure of this disease ought to begin with plentiful bleeding : after which, frictions and strong ligatures should take place; as also embrocations of the oil of mace, mixt with the oil of anise or roses; and lastly, the oil of turpentine and Indian spikenard, which the island Java produces in abundance. Large cupping glasses, without scarification, are likewise to be applied

The practice of bleeding in this diforder, though apparently necessary for preventing the consequences which may arise from so violent and general a constriction of the muscles, is affirmed, from later experience, to be rather of projektice than utility, unless the patient is of a plethoric constitution, or a fever supervenes,

which a repulsion of the serous and bilious humour will be made from the muscles and nerves.

If by these applications the violence of the paroxfym should abate, and the patient recover the power of swallowing, antidotes ought to be administered in a liquid form, which may correct the poilonous quality of the humours, and evacuate them by urine or fweat. lapis bezoar, rafura cornu rhinocerotis, mixed with theriac, mithridate, &c. Emetics, likewife, are then to be taken, of infusions of gamboge, hepar antimonii or crocus metallo-In a word, this is a difease so rapid, acute rum. and dangerous, that it admits of no procraftination, and every possible method of cure should be carried into immediate experiment. But if the diforder increases, or continues to violent, that the patient is incapable of deglutition, the belly is to be opened by clysters of the most stimulating kind, fuch as the following:

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Res ei in Electar. R. Bontii (infra descripti) 31.

word Sem. ol. anethi ziii. m. f. Enema. Jonen

The person is afterwards to be anointed with the oils above mentioned, and the naphtha of sumatra, or minjac tannah. Baths, likewise, and somentations are to be made of the herb lagondi, and the leaves of a shrub called davullontas, which grows to the height of a man, with a leaf divided in the edge, and in slavour nearly resembling balm. These leaves, by an anodyne and specific kind of quality, are peculiarly adapted to this terrible disorder, and assume the racking pain which arises from the contraction of the nerves. The lapis and sal prunellae, taken in-

^{*} Besides the herbs here mentioned, the ingredients commonly used in Europe for emollient fomentations, with the

wardly, are incomparably useful; evacuating the bilious matter by a plentiful flow of urine, and gently cooling the blood where any feverifh heat is attendant. Above all, particular regard is to be had to the violence of the pain, which is fo urgent a symptom, that anodyne applications are of more immediate necessity, than those which affect even the primary cause of the disorder. For that purpose the laudanum quercetani is extremely proper, as likewife philonium fine Euphorbio, but chiefly the extract of faffron, shall aftewards be described. Some, perhaps, may infift that these remedies ought not to be used, as being injurious to the nerves by their flupifying and narcotic quality: but however specious that argument may at first sight appear, it is absolutely void of foundation: for, belides that the great heat of the climate authorifes the use of narcotic medicines, it is certain, that without recourse to them, in cases of fuch urgent extremity, the patients could not possibly furvive. Add to

addition of theriac, have been experienced highly advantageous, and even preferable to the femicupium, though that has been strongly recommended by some authors.

It is almost unnecessary to remark, that fomentations ought commodiously to precede the use of ointments.

this, that the opiates which we use in this country, are so duly prepared that they may be safely administered even to infants: and in fact, were it not for these valuable medicines, we might abandon every physical application in all the hot diseases of this country: which affirmation, though it may appear unwarrantable to the unexperienced in such practice, I am consident, on such that the observation, will be universally acknowledged to be just

In regard to the regimen, it is a matter of no great importance: for the extreme violence, and

The unanimous tellimony of modern practitioners confirms this affertion of our author; the rectitude of which is so clearly ascertained by experience, as to justify the most resolute and liberal prescription of narcotic medicines that occurs in all physical dispensation. Authentic cases of the various spasms are recorded, wherein a scruple of opium has been administered in the space of twenty four hours; which, though it suspended for a time, and a periodical repetition of it in the end overcame the disease, neither induced a fluper, nor procured an uninterrupted fleep of three hours. Mulk likewise has been joined to opium with great success. And we are informed of a case of the opisthotonos at Haslar Hospital, where opium and camphire, laid to the feet, infantly and repeatedly removed the spasm, which always returned with its former violence when the application was withdrawn.

rapid progress of the disease supercede all deliberate procedure: but when the rigor of the paroxiym begins to abate, broths made of sowls, kid, and real, should be used, wherein cardamons and ramarinds, produced abundantly in java, are boiled, which will serve both for food and medicine.

C may Cappear biowenantable well he underpe,

* It deserves to be remarked, that the practice recommended by our author in this chapter, is, upon the whole, too general and indiscriminate; and inapplicable to the various causes productive of the opisthotonos, emprosthotonos, tetanos, and locked jaw. The difease of the spain is the most defective in its history of any which we meet with a this diligent and discerning physician. He has not related fuch facts and observations as were necessary to form his own. opinion of the origin and nature of the difeate, or might serve to direct the judgment of others. But it is not to be supposed, that he comprehends in his description any idea of those spasms which proceed from a wound, or puncture, and the rigor of extreme and fudden cold. It is manifelt that the method of cure he profecuted was intended for the expulsion of some acrid and irritating matter : and though his conception of its origin was vague and undetermined, nor supported by any principle which could account for its production) yet it feems not intirely destitute of plaulibility. fince it is known; that in the torrid zone young children are fubject to the fpalm from cirritating humours in their bowels. But however imperfect our author's account of the spain may

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type protectible out and engine of the belly.

This differder is partly induced by a warm and

Of fluxes of the Belly; and first of the true Dy-

suments which much he advanced in refutation of

SINCE in this country, as well as with us, there are various kinds of fluxes of the belly, I shall here treat of each species; tracing the struction of the parts affected, investigating the causes, and from these, and the observation of the symptoms, checidate the method of cure. And first, of the true Dysentery, that horrible and destructive disease, which causes greater devaluation in the Indies than any other malady whatever.

The true Dysentery, then, is an ulceration of the intestines with a perpetual purging, at sirst, nuccous, afterwards bloody, and lastly, purelent, intermixed with the very substance of the bowels,

per Alpinus, call it mula.

be duriones,

be reckeded, and however unfinitable or inadequate his general precepts to particular cases, it must be acknowinged; that, in his ulfintate recourse to opium, he proceeded upon the most rational and auspicious principle, and has the merit of recommending a practice which experience confirms to be falutary.

with intolerable pain and griping of the belly. This diforder is partly induced by a warm and moift air: which leads me to remark the error of a pretty general opinion, that on account of the proximity of the equator, the temperature of this climate is hot and dry. Among many other arguments which might be advanced in refutation of this notion, one is unanswerable: which is, that steel, iron, and also brass, sooner contract rult or verdigrife, even in the drieft feafon of the year, when not a drop of rain falls in this country, than in the wetteft autumns in our own. Befides, the fruits here greatly contribute to the difeafe: which if a person is not extremely cautious of eating, and takes without rice, or bread and a little fale, he fearcely can escapes the disorder injusting in France and Spain, where people, who car much grapes without bread, have immediately feized with a Diarrhosa or Dyfentery. The froits here are thefet the Indian fig. which the natives call bananas and pilang. Garcius ab Ortay and Profu per Alpinus, call it mufa. Next, the duriones, jacas, anamas, cucumbers, water-melons, &c. of which a defeription may be found in Garcies, and Joannes a Linfehoren. Thefe, belides their being green fruits, are injurious to the temperament by their heat and humidity. Melons and cucumbers,

indeed, may be excepted from the former imputation, but they are highly obnoxious to the latter. But the principal cause of this disease, is the drinking an inflamatory liquor, Arac, which the Chiness make of rice and the holothuria, or what in Holland we used to call quabben or quallem. These holothuria have so pungent a heat, that the touch of them ulcerates the skin, and raises vesicles. Happy were it for our sailors that they drank more moderately of this liquor: the plains of India would not then be protuberant with the innumerable graves of the dead.

As to the cure, the common remedy is an infusion of rhubarb in decoction of ramarinds, to execute (as they say) and attemperate the acrid studes. But it deserves to be remarked, that this remedy is not only often unsuccessful, but that sometimes it causes certain destruction, when the extremely acrid bile is successful, and there is danger of its being irritated by the gentlest saxative, and driven with greater violence towards the seat of the disorder, to the incredible torment of the sick, and often his inevitable ruin. Add to this the extreme weakness which is frequently induced by the Dysentery, and rather requires restoratives than purging. Here, therefore, it behoves the physician to proceed with the greatest circum-

fpection: and in that fentiment I shall now prescribe what I have found, from long experience, to be the most successful method of practices.

Let the common drink, then, be a decoction of rice, which the Indians call caudgie, with endive and fuccory: adding, likewife, the hart's tongue, or phyllicis, which grows plentifully here about the rivers, and at the fame time that it strengthens the liver and intestines by its astringent quality, corrects the acrimonious and raging bile.

But if the feverity of the pain should not admit of fo flow a regimen, recourse must immediately be had to the extract of faffron, than which (I dare affirm) a more excellent remedy was never difcovered by mankind; and I am fully perfuaded that it is the most perfect antidote against this difeafe, even when of a malignant kind. It is not my intention to enumerate a large tribe of medicines; I would restrict myself to such as not only from their obvious qualities, but the congruity of their substance, are adapted to this cruel disorder: and these abound in this country. Those fruits which we call mangos, and are commonly pickled, are highly useful in this disease, on account of their acidity and aftringency When unripe, likewife, they are boiled with eggs, after the manner of the grapes in Holland: non could a

person, though of the most exquisite taste, easily distinguish the difference. A preserve is also made of them, like that of our quinces, for which it is a substitute, and I question is not superior. For strengthening the bowds still more, the syrup of pomegranates newly taken from the tree, is of great advantage in the Dysentery; as are also the sowers of them preserved it supegrab shall

ever, not attended with fymptoms equally fevere:

Various and violent methods have been attempted for the cure of the Dyfentery; and after exhibiting a long and difficulture course of emetic and purgative medicines, the general practice has at length conformed to the propriety of moderate dvacuations. Historian being premised, or omitted, at sugged necessary, a few grains of inecacoan by way of vomit, at the beginning, with the occasional use of some gentless of the subsequent remedy on the intestines; we must substraice, with our author and the justicious Sydenham, to the sovereign efficacy of repeated opiators as the only advantageous resources. With these the bark is to be joined, in the state of convalescency; and we are informed that the use of the cold bath, in all hot countries, contributes greatly to a perfect re-establishment of health.

cucumbers, goards, citruls, common pumpions, and water-melons, of all which there is here the greatest plenty. Of these likewise are made emulsions, electruaries, and powders, of great utility in this disorder. For the revulsion of the peccant

perion, though of the most exquisite taste, easily decinguish the difference. A preserve is also made of them, in What has a Bot of them, in What has a Bot of them, in What has a bot of them, and I question it not superior. For the entry neming it of site of them, the superior of preserve and what is a site of the site of the site of the site of the sites.

HE Hepatic flux of the belly, though no less dangerous than the Dylentery, is however, not attended with fymptoms equally fevere: there never being an excoriation of the intestines nearly fo confiderable, and fornetimes none at all. For in this case, the blood is generally discharged pure and unmixed, either on account of the retentive faculty of the liver being impaired, or the acrimony of the blood opening the months of the veffels per anaftemotin, or lattly from its quantity diffending the meleraic veffels, whence it is poured into the intestines, and discharged by Itool; which latter kind is the least dangerous of all the bepatic fluxes, and often more formidable than hurtful. If the cause is an acrimony of blood, the colder decoctions should be used, made of the seeds of cucumbers, gourds, citruls, common pumpions, and water-melons, of all which there is here the greatest plenty. Of these likewise are made emulfions, electuaries, and powders, of great utility in this disorder. For the revulsion of the peccant

humour, cupping-glases, with scarification, should be applied to the foins and fraunches, and preferves of the above mentioned divient fruits be made Conjice in vas vitreum oblongi, & samufi wolfin

But if the blood is in too great qualitity, the median vein should be opened without delay, proper regard, however, being had to the ftrength of the patient : because the people of this country, and especially the fick, on account of the hear of the climate, and the constant evaporation of the spirits, are disposed to weakness. For this reason, I never advise bleeding unless in cases of absolute necessity, as our bodies, being softened and relaxed by the heat, do not easily bear that evacuation. It is otherwise with the strong constructions of the Portuguele and inhabitants of Java, who being inured to heat, can admit of bleeding in great quantity. T speak from experience. In every extremity, however, we must have recourse to the extract of laffron, as the anchor of hope: of which odmos and niojdul area flahl i anisham aldaulav in the former, and often confits only in firength ening the flomach and intestines Of the other

Auxes; however, I thalf giv an account, Opii electissimi catest plants. Of these I Sang. dracon, Gum, Benzoin,

fions, sledtouries and p

^{*} The author means the Dutch,

humour, cupping glases, with scarification, should be applied eslaups, sarten and laponical and applied eslaups. Parten and applied eslaups, parten terpian; made aceti fortistimi ex vino, ut materiam seu malade aceti fortistimi ex vino, ut materiam seu disconsidiration de la companio de la com

extracti.

The dole of this is from lix to nine grains, and a dole of this is from lix to nine grains, and the dole of this is from lix to nine grains, and taken in the form of a pill, or diffolved in a food-necessary of the horizontal and the difference of the bow-like of the bow-like of the thing the horizontal and the difference of the bow-like and the difference of the bow-like of the bow-lik

I designedly pass over the Diarrhea, and Lientery, or that flux which commonly succeeds a long continued Dysentery, as they are sufficiently known in our country, and the cure is much the same as in the former, and often consists only in strengthening the stomach and intestines. Of the other fluxes, however, I shall give an account.

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cally delicing, or are delivered

the anus and the bladder, is excited by the continual irritation to expel the foctus prematurely. For the fame reason, a procedentia and is frequently brought on, as Areald, the Archorhoods; and if the disease continues long, a dropfy, as I have often observed. Whence follows a decay of the body, and, after the limital life to the continues of the body, and, after the limital life to the continues of the continues of the continues of the body, and, after the limital life to the continues of the

As this differder, extends no farther than the

THE Tenesmus is more dreaded in this country, than the Dysentery, on account of the extreme uncasiness which attends it; and indeed, when it precedes that disorder, it is generally more tal; because all diseases that increase by succession, are likewise increased in virulence. But it it comes after the Dysentery, the cure is more easy, as then, it is only the remains of that disease, fretting the parts affected.

A Tenefinus is an ulceration of the inteltinum rectum, with conftant pain and a delire of going to flool, when first, a little mucus, mixt with some drops of blood, and afterwards purulent matter is discharged. Whence our people very properly call this disorder den druyploop, because the peccant matter comes away by drops. When pregnant women are seized with the Tenesmus, they generally miscarry, or are delivered before the due time. For the uterus, being situated between

the anus and the bladder, is excited by the continual irritation to expel the fœtus prematurely. For the fame reason, a procidentia ani is frequently brought on, as are also the hæmorrhoids; and if the disease continues long, a dropfy, as I have often observed. Whence follows a decay of the body, and, after excruciating torments, death.

As this diforder extends no farther than the intestinum rectum and anus, the cure of it consists chiefly in clyfters, fomentations, and baths, prepared of emollient and detergent herbs. Such are the leaves of davullontas, and lagondi, abovementioned, marth mallows, yelfow mallows, the feeds of cummin, anie, fennel, &c.

When by the use of these the user is somewhat cleanfed, and the pain become more early, we ought to have recourse to aftringent fomentations, effecially if there is a procidentia ani. The materials for that purpole are harts-tongue, and the leaves of tamarinds, together with the fruit, and the leaves of bilingbing, mentioned above, which, in shape and magnitude, relembles those young cocumbers called, by the Portuguese and Italians, agureas; than which a more acid fruit, the earth, I believe, never produced. For, if a perion eats of them after his teeth have been let on edge by any other acid, the fenfation is immediately obli-For the uterus be

terplied poin the fame way as an extreme acute pain delings the perception of one less as I have principally mentioned these remedies, for the sake of informing ourious inquirers, that where the difeafes above-spoken of are endemial, there, the bountiful hand of Nature has profusely planted herbs whose virtues are adapted to counteract them. I forbear infifting on the medicines which are known in our own country, as my chief intention is, to instruct those lovers of physic, who either now practife with me, or shall succeed me in this remote part of the world. And would to God that the disease, by which I have been confined these four months, still permitted me, as for long after I arrived here, to roam thro' the delightful circumambient woods of Java, and attain a more perfect knowledge of the many noble herbs which are to be met with in this country! In a future volume, however, I shall give the names of a great number of trees, shrubs, and herbs, that it abounds with. I shall, likewise, give you an account of birds and fifnes (a fubject I always was fond of) which are caught here; explain to you their nature, and shew what are their peculiarities, or in what they agree with those of our own country. In the mean time, I shall conclude this chapter with that golden fentence of Celfus, Lib. iv. c. xvi.

mis "As imal fluxes of the belly, for especially in this (the Tenefmus) oit is necessary that a person go to fool, not from inclination, but necessity, that this very delay may inure the intellines to a les above-spokeff instruduisht gainissurfo tidad tiful hand of Nature has profutely planted herbs whose virtues are adapted to counteract them. forbear infilting on the medicines which are known in our own country, as my chief intention is, to instruct those lovers of physic, who either now practife with me, or shall succeed me in this remore part of the world. And would to God that the disease, by which I have been confined these four months, still permitted me, as for long after I arrived here, to roam thro' the delightful circumambient woods of Java, and attain a more perfect knowledge of the many noble herbs which are to be met with in this country ! In a future volume, however, I shall give the names of a great number of trees, thrubs, and herbs, that it abounds I shall, likewile, give you an account of birds and fishes (a tribject I always was fond or) which are caught heres explain to you their nature, and thew what are their peculiarities, or in what they agree with those of our own country. In the mean time, I firstle conclude this chapter, with that golden fentence of Celius, Lib. iv. c. xviq

prove prejudicial. However, as by fuch excelfive purgations the arimal spirits are exhausted. end the have the foundain of hear and life; is overwhelined will the purity tillivia, those who are feized well this diforder generally die, and that so quickly as in the space of four and rwenty hours at most

Such, among others, was the fate of Cornelius RESIDES the difeases above treated of as endemic in this country, the Cholera morbus is likewise extremely frequent, to the account of which malady I shall devote the present chapo'clock ar night; the violence and rapidity of dat

In the Cholera, hot, bilious matter, irritating the formach and intestines, is incessantly, and copioully, discharged by the mouth and anus. It is a disorder of the most acute kind, and, therefore, requires immediate application. The principal cause of its next to a hot and moult disposition of the air sis an intemperate indulgence of eating fruits; which, as they are generally green, and obnoxious to purrefaction, irritate and oppress the flomach by their superfluous humidity, and thould break forth solid suonigurisamacabliorq

The Cholera might, with some degree of reafon be reckoned a falutary excretion , fince fuch humours are discharged in it as if retained would

prove prejudicial. However, as by such excelfive purgations the animal spirits are exhausted,
and the heart, the fountain of heat and life,
is overwhelmed with the putrid essure, those
who are seized with this disorder generally die,
and that so quickly as in the space of four and
twenty hours at most.

Such, among others, was the fate of Cornelius Van Royen, heward of the holpital of the life, who being in perfect health at fix in the evening, was foodenly leized with the Cholera, and aspired in terrible agony and convultions; before twelve o'clock at night; the violence and rapidity of the differer furniounting the force of every sentily, But if the patient should firrive the period above mentioned, there is great hope of parforming a cute and, but a busis of the period above.

This disease is attended with a weak pulse, difficult respiration, and coldness of the extreme parts; to which are joined, great intornal heat, infatiable thirst, perpenual watching, and restless and incession to good and fortide sweat with these symptoms, a cold and fortide sweat should break forth, it is certain that death is at fixed, correspondent of the manual particular at fixed, correspondent of the manual particular standards at fixed, correspondent of the manual particular standards at fixed.

Is to mirigate the excellive frarpacies of the hu-

pacified for a time, fectured nature may rife up mours a which is chiefly to be accomplished by aftringents, and fuch medicines as not only strengthen the stomach and intestines, but, at the fame time, by moderately cooling, restrain the fury of the rioting morbific matter. The most excellent medicine for these purposes, is the syrup of billinbing, formerly recommended as also the fruit of the fame plant preferved, with the addicion of laffron; and likewife the lyrup of the recent juice of lemons. Moreover, there grows in Java the pseudomyrobalanus, excellently adapted to this disorder, and resembling, in form, the bellericos. It is brought to market in great quantities by the negroes. This is the only species of myrobalans that is endowed with an aftringent, and not a laxative quality; whence the preferve, made of it, is of the highest utility, not only in the Cholera, but in all immoderate fluxes of the belly. Other medicines for the purpose are, cornu cervi ustum, lapis bezoar, rasura cornu rhinocerotis, and margaritæ præparatæ.

If these remedies should not answer the intention, the extract of saffron, so often referred to, must again be called to our assistance; both that sleep may be procured, which, on account of the excessive weakness, is now absolutely necessary, and that the turbulent humour being

pacified for a time, recruited nature may rife up victorious me Those who die of the Cholera gune aftringents, and fuct smallivinos ni ricks villa frengthen the stomach and intestines but, at the ame time. by moderately cooling reftrain the In the treatment of the Cholera morbin, the practice of our author is fimiliar to established prescription, only that for attemperating the acrimony of the humours, the make no mention of dilution by drinking and injections, which if the diforder is not arrived near its last stage, may be advantageously administered before the exhibition of opiates. recent juice of lemons. Moreover, there grows in Java the pseudomyrobalanus, excellently adapted to this diforder, and retembling, in form, the bellericos. It is brought to market in great quantities by the negroes. This is the only species of myrobalans that is endowed with an aftringent, and not a laxative quality; whence the preserve, made of it, is of the highest of they, not only in the Cholera, but in all immoderate huxes of the belly. Other medicines for the purpole are, cornu cervi ustum, lapis bezoar, ratura cornu rhinoce-

If these remedies should not answer the intention, the extract of fastron, so often referred to, must again be called to our assistance; both that sleep may be procured, which, on account of the excessive weakness, is now absolutely necessary, and that the curbulent humour being

rotis, and marganita præperatær

bowel drawing down the diaphrager, to which it is connected by a ligament. If this infarction continues, the fragmating humours eafily become putrid: whence arifes a fever, and an inflammation of the liver, with acute and pungent pain.

noistanted of the face of the Liver: and first of Objects of the Liver: and first of Objects of the face, and sevences, anchold by a recorded to the face, and noistantestally bear observed above

to be the natural effect of the obstruction. Thele is, in this country, more often diseased than the liver: which, independent of other causes, is folely by the drinking of that destructive arrac, not only altered in its temperament, but corrupted in its substance. For, when the intoxicated drinkers are all a glowing with the pernicious draught, they swill down immense quantities of water into their stomachs, to extinguish the heat; then lye along the ground like bealts, or fretched on the decks of the spine, expose themselves to the dews, which fall copioully here, after the second or third hour of the night. By which means they receive into their bodies the noxious vapours arifing from the earth, and lay of aromatic grafs in flavour refembling avens, revised and in anoithment of noise and what ought to have been mentioned sounds but on the true calamus aromaticus, which Garcias first the true calamus aromaticus, which Garcias

In this disorder, a tensive weight, and obtule carried disher a tensive weight, and obtule pains are felt in the right hypochondrum. The word daily along our obtains are felt in the respiration is disticult, on account of the distended

is connected by a ligament. If this infarction continues, the flagmating humours easily become putrid: whence arises a sever, and an inflammation of the liver, with acute and pungent pain. The fever becoming ardent, intolerable thirst advances, attended by a redness of the face, and difficulty of breathing, which I observed above to be the natural effect of the obstruction. These two affections, namely, obstruction and inflammation, being so closely connected, that the one generally produces the other, I shall treat of the cure of both in this chapter, beginning, as most proper, with obstruction.

Great care ought here to be taken not to the too hot medicines at first, left the capillary vessels of the liver should thereby be farther obstructed, and we fall into the proverbial absurdity of adding fuel to the same. Temperate and gentle deobstructed, and the same and the medicines properly adapted. Such are those called anodynes, as the seeds of anish and the same and cummin, with which the country supposes us. Next, the roots of a certain kind of aromatic grass, in flavour resembling avens. To these add (what ought to have been mentioned first) the true calamus aromaticus, which Garcias ab Orta calls the food of the cames, which grows about the murbhod of the cames, which grows about the same and the same aromaticus, which Garcias ab Orta calls the food of the cames, which grows

tante feating their meat, respecially fish, in not an unfavory manner. Other medicines should also be used, which together with a mild heat possess a diumite quality, that this useful and important bowel may be freed from infarction.

The offending matter being how prepared, it is not to be evacuated all aconce, but drained off by degrees. If he most fuitable medicines for this purpose are tamacinds, and the pulp of the cassia sistularis, to which may be added a little tarpential, properly boiled, and afterwards reduced into appowder least is amazing how mildly these modicines carry off the morbise humours, both by stool and united. If any thing stronger is desired, and the whole mixed together in the form of a belieshing, built where to analyse added,

When from the increase of the fever, and a more vehicuted and pungent pain, you find an inflantation advancing, forthwith bleed plentifully, according to the strength of the patient. Order the diet, syrups, and conserves, already so often mentioned, and which for that reason I decline to repeat. A preserve is here made of the fruits which we dall poma moris (love apples); the Italians give them the name of bella donay and

the Portuguele for spommed ore to be increased a species of mandrakes of The Chinese outside outside in their gardens, among their falladap and couling to affect, with pepper and vinegate. That this plane is endowed with grout frigidity, yet, in this chiese climate where the bild is authoridate it regime of falutary repolacies together livers, and their organs with which it is connected. The many likewise is pickled with winegate pepper, and accomplicate is pickled with winegate pepper, and accomplicate the pickled with winegate pepper pepper, and accomplicate the pickled with winegate pepper pepper

The hypochondria, the right especially ought to be encinted with an excellent anguent made here by the Indian women, of which the printing cipal ingredients were. the roots of surfactive which the natives call berborii, and whenen the whole composition has received the same determination; the saunders, of every kind, with the addition of camphine, and the oil of the sacon, or if you will, that of roles, which is brought to us from Persa. All these are beat in a merble mortan to the consistence of an ointment of consistence of consistence of an ointment of consistence of

bodies to preferve them from the injuries of the heat it And because on account of the numerical italis of a yellow colour other people seem as if they were stinged with saffron. The cointment

however, is of a very agreeable flavour, and beneficial to the brain. For the same purpose we make an oil of the flowers of a certain tree that grows not very high, and bears leaves like those of the peach-tree. The flowers are of a dilute green, which the Dutch call zeegroen, and appear at first fight to be rather a cluster of leaves: but the stems that are in the calvx, or cup, in the fame way as in the roles, confirm them to be flowers. The name given by the inhabitants both to the tree and flowers, is sampaga, and among them they are in the greatest esteem: for, of all the Mahommedans, the Indians are most remarkable for the love of an agreeable flavour: fo that you pover can fee a woman in the fireets, who has not thefe, or other fuch flowers, fruck into her hair, in order to render her more agreeable to her hufband, or her lover. But to return to our subject. If, as frequently happens, the pain in the liver and ligament is intolerably violent, we must for a little suspend our attention to the cause; in order to mitigate that symptom. This will be best performed by the inestimable extractof faffron; by which alone, I declare I have cured great numbers; nature recovering strength by the favourable truce, and expelling the morbific matter by flool, urine and fweat.

howevery as of a very agreeable flavour, and the ineficial to the brain. If or the lame purpole we make an oiling the fewers off region tree, that grows not very high, and bears leaves like those of the peach tree. The flower are of a dilute

of an Imposibilities in the Liver, and the cure of the

the flems that are in the calve of cup, in the ston bluodi ravil and to noitemmelmi and T. T. be yield to antiphlogistic and discutient remedies, a miserable disorder follows, namely, an Imposthume; with which if the parenchymous part of the bowel be affected, the malady is incurable, and therefore needs not be treated of. But if the purulent matter be collected between the membrane furrounding the bowel, and its substance (as often happens) the only chance of recovery is in opening the imposthume; which ought to be performed in this manner. First, let a potential cautery be applied to the region of the liver, fo that the eschar may only penetrate the muscles of the abdomen, and make no impression on the perironæum. Then, by means of a knife, make a small aperture in that membrane, thro which let a concave filver inftrument be introduced, fuch as is used in the operation of lithotomy. Afterwards, let the incision be sufficiently dilated, D 2

and immediately the membrane furrounding the liver will come into view, diftended with its con-On being pierced, a fanious humour, refembling the water in which flesh is washed, will flow out which the less foetid it finells, affords greater hopes of a cure. The wound is then to be deterged, by moderately drying and cleanling applications: fuch as flor rolar, cortex granator. mel rolar. &c. and afterwards to be healed." In the mean time, the patient is to abstain from all purging medicines, and buly to make the of strengtheners; fuch as conferv. rolar, with the powder of red faunders, to which may be added cornu cervi ultum, and rafura cornu rhinocerotis. which is round plentifully here in the woods margaritæ, & corattium rub. præparatum ; ty rups, conferves, and preferves of billimbing, mangas, and inice of lemons, all which, by cooling and arengthening the liver, afford great relief. When the patient is weak, as is generally the cale, the lapis bezoar ought to be freely ided alds was not exempted from a preside of to uniterfal and pre-feriptive dominion, or discovered not an error which lay con-

feriptive dominion, or discovered not an error which lay concealed till the future dawn or note genuine milotophy. It is natural differentiable bowless led him to see in many things the finilities of the thebestic Jergon! and though he applicitly adopted the menance theory of his predecedors and contemporaries, we his practice he a tounded all authority!

and following no dictates but those of nature

and immediately the method of furrounding the liver will come into view, differed with its confernts. On prince diegrate a faring furrounding the water in which field is washed, will fembling the water in which field is washed, will neighbour the minimper (rive apality a signific adia) of a cure. The wound is then to be greater hopes of a cure. The wound is then to be alt ni amudhoquii adia to altitude of the appropriate of the second succession of the property of the prope

that the droply owes its origin to a cold temperament of the liver which often proceeds from a chronical obstruction. This obstruction arises

tim in the use in which this was written to little deriverities origin from the venerable authority of Galen, in wit long maintained by succeeding physicians as facred and unquestionable. It is, therefore, no imputation on our author, that he was not exempted from a prejudice of so universal and prescriptive dominion, or discovered not an error which lay concealed till the future dawn of more genuine philosophy. His natural discomment, however, led him to see in many things the futility of the scholastic Jargon: and though he implicitly adopted the reigning theory of his predecessors and co-temporaries, yet in practice he renounced all authority; acknowledging no other guides than observation and facts, and following no dictates but those of nature.

from unwholelome diet, and the use of the fruits formerly mentioned. Hence sanguistication is vitiated (for the liver is the elaboratory of the blood). For, whilst the liver cannot convert into blood the chyle which is brought thro' the meseraic veins, it produces in place of it that serous, and watery humour; and, as in our own country, either the whole body swells, or the abdomen, and that, either with wind, or serous humours. Whence, these three celebrated species of the Dropsy, Analarea, Ascites, and Tympanites, are, alas! too frequent in the Indies.

The part principally affected is that noble bowel, the liver. A dry cough attends, with a difficulty of breathing: because the liver, by its increased weight, draws down the diaphragm, and hinders expiration. A slow fever for the most part comes on, and the urine on account of crudity and a weakness of the natural functions, is thin and pale. There is likewise a lassitude of the whole body; and a perpetual thirst, by reason of the saltness of the humours.

These are the chief signs of a dropfy: and if
I omit mentioning some other more inconsiderable
symptons, it is because my intention is not to
form a physician, but to teach the most falutary
practice in this country to those who have already

is proper to observe, that, in general, the dropfy is more easily vanquished here, than in our own climate (Holland). A prudent physician, therefore, will be careful not to hazard his reputation, nor rashly pronounce a disease mortal, which, to his great scorn, may in a little time be cured by old women, or even by nature itself, with only a regard to proper diet.

The cure consists in preparing, and evacuating the peccant humour, and correcting the temperament of the liver. The diet ought to be such as affords good nourishment, as hens, or chickens, which are here the most common kind of birds; and these should be boiled, rather than roasted. But amongst the other kind of fowls, those are preferable which have black flesh; for the inhabitants have for a long time experienced them to be endowed with a diuretic quality. In the

This precept was founded upon an erroneous opinion, that the humours to be discharged, required preparation, which was supposed to be best performed by medicated broths and drinks. Such practice, however, is deservedly exploded with the theory whence it arose. Though efficacious dimetio medicines may be administered in a liquid form, it is certain that in general the most proper diet for hydropical persons is that of the dryer kind.

broths, should be boiled the feeds of dill, and fennel, and the roots of fuccory, together with mars joram, and common befil, with all which we abound. The flesh of goats, prepared in the same manner, will likewife ferve both for food and physic. But nothing is so efficacious as the daily use of a decoction of china, and farfaparilla with the roots of turmeric, and the herbs called devil's bit, and scabious, which the Malaican midwives extol even to extravagance. The de-I coction of guaran wood, with the bark of it, is also very vietul. The diet our done of nois

When the bumours are thus prepared our next, endeavour must be to evacuate them by firing catherties, left by amploying the more mild, we should rather flir than discharge the percent matter Among thefe, the most excellent is the extract of Gamboge, which I prepare muse, which being calledted, and reduced to girls

confidence of an extract, is preferred for user

The plane which produced sailtion and rediffe, or those vellow tests which you have

Gambog.

on Gummi ammoniaci aa partes acquales.m ol a Aceto vini acerrimo diffolvantur: pone in vale vitreo ad folem fortiterque, colatum exponatur ruffus, donec contraxerit confiftentiam maffe Cambodia, a country portering with meralibliq whence it has got its name prothind sold of fuccory, together withdard

The edeumis afininus, or wild cucumber, grows also here in great plenty; whence I have fometimes made the claterium, and given from a fcruple to half a drachm of it frequently, with great fuccess. The extractum efula, likewise, is very advantageously administered, from ten to fifteen grains in any convenient fiquor. And as I have often mentioned the gamboge, and the cfula, or spurge of Java, I shall give a description of each.

There grows here in the woods a species of the spurge, that rises to so great a height as to equal, or even overtop large trees, to which it clings like the ivy. Its thickness is about that of a man's arm. On wounding the stem of this plant, there slows forth a great quantity of milky juice, which, being collected, and reduced to the consistence of an extract, is preserved for use.

The plant which produces the gambage, or those yellow tears which you have in our country, is so much like the former, though it grows not quite so high, that there is almost no other difference in the juices of both, than the colour. This plant, like the aloes, grows in great quantity in Cambodja, a country bordering with China, whence it has got its name.

I shall say nothing here of the paracentesis, or perforation of the abdomen, not that the operation is not frequently performed in this country, but that all expert physicians and surgeons are sufficiently acquainted with it. Besides, my intention is only to treat of such methods of cure as are most common in the Indies; and it is more my ambition to be a good practitioner, than absorbed in verbal theory, lostily to declaim on the nature and cure of all diseases, in idle and scholastic retirement, only acting the physician upon paper; and I dare affirm without presumption, that if physicians and surgeons shall pursue the method I have recommended, they will not repent of the consequence,

The serous humour being mostly evacuated, that the patients may not relapse (which, without proper care, is, in the Indies, not only frequent, but irrecoverable) the remains of the disease ought to be entirely eradicated, and the liver as much as possible restored to its former temperament. For which end, besides the common sudorific antidotes, theriac, mithridate, &c. a light decoction of sarsa, china, and guaiac is to be persisted in for some days, which in this, as well as other chronic diseases, is by far the most excellent and certain remedy.

I that I fay nothing there of the prince of the prince of the opens.

The prince of the property of the prince of

fufficiently saide in the Indies of the feethous of cure

HE jaundice is here defervedly ranked a mong the difeafes most frequent in Indian as it is not only a primary complaint, but also either accompanies, or follows other diforders; fuch as an inflamation, feit hus, and import hume of the liver! and being then fymptomatic, and arifing from the violence of a difeate, it is gene rally mortal. But of this species of jaundice, T shall forbear treating; as the cure of it is connected with that of the disorder on which it depends." There is also another species of jaundlee, when the gall-bladder being obstructed, its contents are not transmitted into the intestines; whence the fæces appear white, but the urine is fo highly faturated as to frain linen with the colour of faffron. For, the bile returning to the liver, is, by means of the veins and arteries, diftributed with the blood thro' the whole body, tinging the fkin yellow, and manifeftly discovering itself in the eyes. This is the disorder of which cellent and certain remede I am now to treat.

It, on account of the fithing of the obstruction,

This jaundice is fo rapid in its progress, that ir rifes and disappears in a few days at which haps pened form months ago, to two learned and revesend gentlemen, my pasticular friends, Mr. Justus HEURNIUS And Mr. ARRAHAM de Roy, who after taking a few doles of a fudorific medicine, and cordials, recovered very fooned The more chronic kind of juandice, however, requires greater application to the cure, as the obstruction is more difficult to oversome. Belides, it frequently produces a delirium, and phrenitis, the bile being translated to the brain; and if neglecteth, the last itable deopty is the confequence. The grandicines are to be used in this joundice, as were recommended in the obstruction of the liver. The inhabitants alledge that the little birds called chlorides (the Latin term for green fuches, or Canary birds) have a specific virgue against this difeate. The decottion of china, and farfaparilla is of great advantage, by supporting a copious fweat : and for the same insention, the following lour Tamarind. as the in the student the student at

Bulliat q. f. in supradicte decocto, colaturat rursus adde.

Fol. fenne zi, inful in dreod quantarind.

If, on account of the firmners of the oliftruction, a stronger medicine thould be found specestary, the patient may take of the electuary by the table fequent prescription, which I good on the broad there when henwar in life q Po Min Propries Bourus, diet phylician to prince Maurers of Orange, and professor of medicine in the univerand cordials, recovered very formsbyolf to wat chronic kind of jaundice howevert requires greater application to the cure as the oblinquion in more difficults to the difficulties aron in quently produces a delicum g militadanae. and bile being ranilatedille haring ingil inco circe. Post magerationem in q. 1, 280 flarit per ac horas, coquant of f. colature for confirma were recommended in the observation of the labbe The inhabitants, I de noisbrium sente ida cilida no as Polybodings and sering sering de la se anary birds), have a specific wilding med time mong Tellebor ong 3vi aby have serg to en garwelfyrobalayoun omnium a fot bas thew. is highly vierulaine, i. ii di as bairsmaT. Ight Bulliat q. f. in supradicto decocte colature the Formguele cill lathe debla sulrun Fol. fenne ling lotte siles aque uno Pulv. fenne dreden mus

and electuary stains halk go an achiefands. where he operates as a davit cosisting ingiliatroand carries yd Scannione elect. pro quaque electuarii ilb ilo furmen Ther haron, or which gunifashing attends www.Sacchardalbo quilion f. electuariom mollesis lb The disfelis from four draches to an ounced! ons Method the ingredients in this electuary are to became with thered For the polypody ignores much more thick and fucculent on the mangotree, than on the oaks in our country. And if the black hellebore is wanting, we use in place of it a fpecies of the white, which the Chinese, and people of Java call potfock, and is in great ef-Tamarinds, and caffia grow plentifully here in all the woods. In the room of fcammony, which, however, as well as the other kinds of the convolvulus, the country abundantly supplies us with, we may very advantageously substitute the gamboge, after it has been macerated for some days in vinegar, or brandy. For, by fuch preparation, it is entirely divested of its emetic quality, and purges the belly more mildly than fcammony. For common drink, let the patient use a light decoction of china, with the roots of turmeric, which the Portuguese call saffra de tierra, as much as to fay fubterraneous faffron. The powder of it, taken with honey, in the form of

an electuary, from half a drachm to a drachm. operates as a specific in this disease, and carries off the offending humours textraordinarily by The flatulence which confrantly attends this diforder, may be discussed by the carminative feeds and oil of anife. In thore, all these medicines grow in this country, and the Chinese, and inhabitants of Java referve them for fuch medicimach anoreheirthe and successed as see see sologrand dan remission and throonies in our country or And of othe black hellebore banding one lufe in place of ond a frieries of the in bite, a which the Chineld land prebple of Java call podiock and as interest of incein, bo Tamarind of and califac grow plentifully here in all the excods: In the freshiof fearameny, inching however, as wells as the other kinds of the as I havely alue, tiher country abundantly supplies us Nouh we may very advantageoutly dublituite the cosimbogi: activat the incentionacctated for fome they's in singulative brandy is dionaby fach mere of ation, if the thirsty to ethed of accometic adulto, thand, purges the belly more in lithy diam foan impony agor continuative heat is the indicine use a flight edecoction of chima with the roots of turnetic. manich the Porus as us could lattra de tierra, as Franch as Crontavapublier, aucous classronine The licassider of mitakeala the honedicin the form of

an cicclusty from half a drechm to a drachm and three and three operaces as a specific an fals diffiale and three corted Althor their who are allested with this off the commons of the common of

erm abtalutely to displiced by the cerminative to a strengt thought the transfer that the crance is a strengt thought the transfer medical strengt and the contract medical strengt and the contract medical strength that the con

Piris common for people in this country to wafte in their flesh, and grow lean without any manifest cause; no sever, or at most a very flow one attending. There is no confiderable pain; only a little weight is felt about the navel and hypochondria. This diforder, besides an obstruction in the bowels, has often for its cause some latent fault in the meseraic veins, or the substance of the melentery, where abiceffes frequently are formed, as I have more than once observed upon diffection. Nay, I have sometimes found the whole mesentery confumed: and yet the intestines adhered, or rather were confusedly jumbled together, by means of thin, little ikins, or membranes attached to Thus reduced to the last degree of extenuation, the native heat being intirely extinguished, the miserable mortals die. It is remarkable in this disease, that it is generally attended with a Budquos or canine appetite, to which is joined a lientery, in which the food is discharged by the

intestines, little or nothing changed, and unconcocted. Altho' those who are affected with this disorder commonly die of it, yet, that we may not feem absolutely to despair of their recovery, an attempt should be made, that, if by chance, fome fortunate revolution of nature, affifted by gentle medicines, may fave them from impending destruction. Moderately hot medicines therefore, with anodynes, and mild deobstruents, should be used. Such are decoctions and preferves of the feeds of anife, fennel, and caraway, with other carminatives above-mentioned. What is also highly advantageous, is the species of grass produced in this country, of which the name and description are to be met with in Prosper Alpinus, in chapter xl. of the Egyptian Plants, and is deservedly called cross-grass, on account of its having four ears at the top of the ftem, exactly forming that figure. The root of this grass, so much used, has an aromatic flavour, nearly approaching to the root of the cariophyllata, or avens. The taste of it is a mixture of fweet and bitter. I have observed admirable effects from a decoction of this root, where there was a stone in the kidneys, and in other chronical obstructions, as that of which I am now treat-

ing. The herb brook lime, or becabunga, which grows here on the banks of the rivers. with its beautiful white flowers, is likewise of great advantage. For diet, the patient ought to eat of turtles and chaffinches, which the foldlers and Moors shoot with their muskets, and bring daily to market. Goat-milk, also, affords remarkable benefit, as by means of the nitre in the whey, it deterges the meleraic veins, and frees them from obstructions. Purgatives ought wholly to be abstained from, lest, while we endeayour violently to make a revolution of the humours, we should increase the obstructions by the heat and acrimony which these medicines generally possess. Add to this, that on account of the defect of nutrition, the patient is always extremely weak.*

* Our author having made no mention of the dry bellyache among the diseases of the abdomen, it may not be improper to give a short account of a malady so endemial in hot climates.

The most remarkable symptoms which attend this disorder are griping pains and contortions of the bowels, statulence, vomiting and obstinate costiveness. The morbid matter is sometimes translated to the arms and legs, which it renders paralytic.

In the dry belly-ache, the grand intention of cure is to remove the constipation. But before the exhibition of catharties for that purpose, the pain of the bowels must be mitigated by emollient and anodyne fomentations and embrocations, and administering opium in clysters. A spoonful of the oleum palma Christi, swallowed every hour, until a stool is procured, has lately been celebrated in this disease. When the pain is violent, and the vomiting fo inceffant, that nothing can be retained on the fromach, we are encouraged to expedithat the complaints will be removed by giving purgatives, joined with opiates and camphire. The use of the warm bath contributes to allay the pain, and forward the operation of cathartics. When by these means, stools have been procured, the belly ought to be kept open for lome time, by the use of gum pills and aloes: and if rheumatic or paralytic complaints inpervene, recourse must be had to hervous strengthening medicines. Moderate riding on borleback, in the dry belly-ache, conduces greatly to complete the recovery and nerally possess. Add to this, that starte anyong the defect of nutrition, the patient is always ex-

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The molt remarkable lymproms which actend this dilorder in griping pains and contordons of the bowels, flatulence vomiting and oblitimate celt. The morbid matter is fometimes translated to the arms and legs, which it renders paralytic.

In the dry belly-ache, the grand intention of cure is to regrove the confination. But before the exhibition of catharties covering, exposed to the way, that lodging whole any covering, exposed to the deus and vapours. And here let me observe by the way, that lodging in the upper floor of the house, is far more whole-

Of some of the disorders of the Lungs, which are not to be the disorders of the Lungs, which are common in this country; and first of the Hæmoptoe, or the country of Blood; and the Consumption, or the catarrals of the Lungs.

Of some of the disorders of the Lungs, and the Consumption of the Lungs.

and hence produce hemoproes, confumptions, and lip sladts to be present a sealing of the old to be produce to be present to the confusion of the confusion of the confusion of the confusion of the country, beither a consultation of the country, beither to confusion of the country, beither to confusion the country, beither to confusion and the country, beither to confusion and the country of the the co

Since therefore, the constitution of the air in this country, as I observed above, is hot and moist, it often happens that the head is loaded with sharp catarrhs; whence a heaviness of that part is so common a complaint, and frequently more lasting than with us. The soldiers and sailors are particularly obnoxious to these disorders, by reason of the pernicious custom of laying

themselves down on the ground after they have drank pretty heartily, and sleeping without any covering, exposed to the dews and vapours. And here let me observe by the way, that lodging in the upper floor of the house, is far more wholesome than below, where ants, scorpions, and the kind of beetles called caccarlaccas swarm on account of the moisture of the earth.

These catarrhs often fall upon the Lungs, which they erode by their saltness and acrimony, and hence produce hamoptoes, consumptions, and empyemas or suppurations. I here omis mentioning the concomitant symptoms, such as a troublesome cough, difficulty of breathing, and a hectic fever, as these are known to all practitioners, and I hasten to treat of the cure. To bodtom and

The above-mentioned diforders of the Longs, to frequent in this country, being generally the confequence of eathers and diffillations, these lasts ought by all means to be carried off by proper purges, at he following pills are well adapted to that purpose:

part is so ex muon a complaint, and frequently anore lating than with us. The soldiers and failors are particularly obnovious to these diforsers, by reason of the pernicious cuitom of laying

which it is undoubtedly possessed, see Garcias

Scammon. elect. aa partes æquales:

Scammon. elect. aa partes æquales:

Infunde in aceto, veHpiritu vini, modo jam læpius dicto, & fole evaporentur in maffam pilularum. The dole is from a scruple to half a dram, or in firong conflictutions to a dram : for, as fluxes of the belly are very violent in this country, fo likewife is costiveness, which is not to be corrected without the stronger cathartics. Ny brother's electuary, formerly mentioned, is also of bus, minoral and recommend to a second and reco

After a derivation of the humours towards the belly, the remains of the catarrh ought to be extirpated by other remedies, particulary calculated to clear the brain, fuch as fternutatories, and malticatories, of pellitory, staves acre, the seed of radilh, creffes, pepper, and things of the like kind. Befides there, we have here a noble medicine, made of the Indian or Malabar flut, bette, and time of oyster shells, which by being chewed draws the phlegm from the brain, confumes what is generated in the Romach, and prevents it from stuffing the head with those vapours which are the caule of catarrhs. This medicine is called in the Walaian language, Sirii Pinang. For its description, and the other remarkable virtues of which it is undoubtedly possessed, see Garcias ab Orta's bistoria aromatum, cap. de betele, ac areca. It is a species of that pinang which the Indians call mabock, as much as to say drunken, which in a short time affects the head, in the same manner as too large a draught of wine; but on eating a little salt, the giddiness it produces goes off.

When these catarrhs, either through neglect, or unfuccessful treatment, have, by the faltness with which they are endowed, eroded the yessels of the lungs, or opened them per anaftomofin, and the person falls into an hamoptor or copious fpirting of blood, with a great cough, blood should immediately be drawn in a large quantity to make a revultion; after which, incraffating pectorals, and medicines reftraining an hæmoptoe, are to be used, which I shall mention below. the patients should for a little escape the spitting of blood, the cough, however, remaining unabated, with a discharge of purulent matter, it is a fign that a confumption, or ulcer of the Lungs is formed, to which if a hectic fever fucceeds, a marafmus and death must enfue.

As an hæmoptoe and ulcer of the Lungs have in fo great an affinity, and one is generally the cause of the other, the method of cure in both

difeates is risher entirely the fame, or extremely fimilar. In the beginning, therefore, we ought to use the cold species diatragacanth, for making which we have here abundance of the feeds of cucumbers, gourds, melons, sec. Almonds, and the feeds of poppy, are also plentifully supplied to us from Surat , all which, together with other medicinal productions of the country, are preserved for use, compounded in the form cither of cakes or electuaries. But nothing is of equal advantage with the extract of faffron, fo often mentioned, which not only restrains the spitting of blood, but mitigates the cough, and by thickening the purulent matter, facilitates expectoration. It likewise heals and cicatrizes the plcerated lungs. In a word, by that medicine only, I have cured many who were in a desperate fituation. The patient ought also to take a draught of the following decoction, thrice a day at leaft a discharge of purulent ma that the

For common drinks let the patient use a delogs costion of chinas or faringsallactic ferry in

Scabiofæ

Morfus diaboli

Linguæ cervin. a m. i.

Capit, papav. demptis summitatibus. No. iv.

a marafous and death man

diffail ispending into Coque things for aging fimilar. In the beginning, the niummor ought to use the cold specesbei afine at earntalon maon Oh fulphur q. f. ad gratum acoremy mefin feeds of cucumbers, gourds, mamszoque. Almonds, and the feeds of poppy, are also plentifully If the lungs require to be cleanfed ftill more from the purulent matter, you may add to this decoction two ounces of the honey of roles in Forms the same purpose, and promoting expectorations we may also employ this conserve: equal advantage for mentioned, which not only refusing the fouring

of blood, but mitigates the court, and by the coing the purulent states and product the purulent states and the court of the purulent states and the purulent states are purulent states and the purulent states and the purulent states are purulent states are purulent states and the purulent states are pu Sem. papav. alb. contule is.

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saint odw. word on why word is a saint odw. I have cured many nwho Scabiolae aa 31. Of hiphur, q. f. ad gratum acorem. m. f. at least to discourse the latest weather of the beart

For common drink, let the patient use a decoction of china, or farfaparilla.

Scabiofæ

bressig I besitte an albeiteant

Morfus diaboli Linguae cervin, 32 m. i., though in the whole

Sapit papav, demptis fummitatibus, No. iv.

fras once un fee fach air excivition. But the methol

of one I am have to propose chough no question somewhat met list and percarious, will certainly be acknowledged by every studicious person, to be the most excellent and effectual resource. A-po-

ods, edir ditth has direct the bowe and filter of purulent matter of purulent matter at the diaparage of the diaparage of the diaparage of the diaparage of the court of the c

MINE cure of the Empyema is performed by to the fame medicines required in an ulcer of the lungs, but with far greater difficulty because the pus, and fanious matter being lodged, either oin one og both fides, between the lungs and diaphragin, though frequently we may drain off a part of them; we fearcely can evacuate the whole. And free there is no other passage for the difcharge of the matter, than the traches arteria, whatever people may affirm of its being frequently carried through the left ventricle of the heart unito the liver and meferaic veins, and thence difcharged critically in the course of circulation, either by purulent stools, or wrine in I pretend moty however, to disparage the authority of those who maintain that doctrine, though in the whole course of my practice, I never was so fortunate as once to fee fuch an excretion. But the method

of cure I am now to propose, though no question fomewhat ticklish and percarious, will certainly be acknowledged by every judicious person, to be the most excellent and effectual resource. A potential cautery is to be applied to the intercoftal muscles, between the fourth and fifth ribs, above the diaphragm, till a large enough eichar is formed, which generally happens in about the space of three hours; after which a sufficient incission is to be made into the party Should this last operation not be preceded by the sife of the cautety, the wound would heat too foom sTo obviate which event, and facilitate the discharge of the spurulent matter, the wound ought no be of fuchea form, asy having the largest diameter, its opposite edges may remain water the greatest distance from each other ownich ist most beminently the advantage of a round incision. Above all, who wevered eard is bettaken that the v pus wor' fanies be not discharged all at once, but at proper intervals, according to the strength of the parient, a confideration, in this country, of the highest importance. Many have I known furoprifingly cuted by this remedy : among whom lare, allergeant, and a corporal, in other Dutch garrifon, who ever finde, when I meet with them, perfectly harrafs me with their kindness, and

thankful acknowledgments: but of these I shall treat in particular observations. If I find that you are pleased with what I write, I shall take care to convince those whose approbation I esteem, that I have not passed the time idly since my arrival in the Indies. And with respect to the malevolent, I am entirely regardless of their censure : for I look on myself as placed above the reach of their envy ; and it is fufficient for my interest here, that I preferve the good opinion of the governour, and counsalors of the Indies, from out fearcely remember to have feen any that obterved regular periods, and had air intermillions or an apyrexy, unless one or two quartans, which the patients brought hither from heir own country, and which terminated in dropfies and death. Feverstherefore, in India, are commonly erratic and irregular, and fowarious in their types, that ie is c impossible to reduce them into classes. Pl do not affirm that tertian interinitence never make their appearance here but they are for extremely rare that we may here apply the proverb, that c one fwallow makes not the figring and my dearfign is, to write of fuch difeates as are conftantlem frequent and endemic. In general, however, it is true that those diseases, in the progress of whichile that rate are well a shell of called a and

care to convince the unit of the unit of the land that the care to convince that what I water, I shall take care to convince that whole appreciation I esteem that I have not passed the unit of the male value the shall the male volent, I am the look of the splaced above the reach of for I look on thyself as placed above the reach of

H B Fevers in the Indies, are generally either symptomatic or continual, and for the most part of the kind call putrid whochion I fcarcely remember to have feen any that obferved regular periods, and had an intermission or an apyrexy, unless one or two quartans, which the patients brought hither from their own country, and which terminated in dropfies and death. Feverstherefore, in India, are commonly erratic and irregular, and so various in their types, that it is impossible to reduce them into classes. I do not affirm that tertian intermittents never make their appearance here; but they are so extremely rare that we may here apply the proverb, that one fwallow makes not the fpring: and my defign is, to write of fuch diseases as are constantly frequent and endemic. In general, however, it is true that those diseases, in the progress of which

fevers supervene, d'aren more dangerous sin inthis country, than diforders which they decompanied from the beginning. I shall, therefore, slay nothing of fymptomatic Fevers, as the cure of them is connected with that of the primary diforder, but lonly speak of the continual which commonly attacks people with fuch violence here, as in an inflant to deprive them of reason, and with ausphrenitis; and incessant delirium, often kill bhemgin avfew days or even hours og od and This fever is attended with perpetual watching, and vomiting of varioutly coloured matter, partileularly of green and sernginous bile. The external parts of the body are colds while, inwardly, great heat and thirst prevail. As this feyer, thereviore vis beforeies of the patrid fynonchus, in which the blood deviates from a healthy flandard, in respect both of quantity and quality, who can doubt that the two celebrated remedies of antiequity are proper for its cure dichough which of them ought to be premifed, may be matter of But, paffing over the subtile arguments, dispute. and altercation of the schools, it is my opinion convenience, than any fixed and permonent rule.

-ni that nouseusays and so or the gaingruents is fituted pobecause, dif otherwise, the benefit of blood letting will be more than balanced by the

injurious commotion excited by the sublequent purge, which may drive, perhaps, the humours to fome of the principal parts, and produce the most terrible fymptoms of Ind the beginning of the difeafe, therefore, the olick should be gently purged with tamarinds vand the pulp of caffia, a common clyfter, at the fame time, being injected, with an ounce of the electuary above described. Venselection may, then, be performed with fafety and advantage, and even repeated if required; the necessity of which, the judgment of the physician vinustridetermine. The whole body is afterwards to gle tibbed with the ointment of borborists. But, if watching, and a phrenitis attend, the vein in the forchead ought to be opened, and fleep procured by every foporiferous medicine y as philonium find emphorbio, requies nicolai, mithridate recently made, doubt that the two celebrated remedies of anti-

though formerly much contended for, is now generally difregarded, as trivial; and the order of precedency betwixt bleeding and purging, is determined rather from reasons of convenience, than any fixed and permanent rule.

[†] This ointment, of which the principal ingredient is turneric, is mentioned by our author in another place, and greatly effected by the Indians, in various difeates.

&c. But, in all cases of danger, we must still sty to my laudanum, or extract of saffron, as the last resource; which, for its extensive utility in the diseases of this country, can never be sufficiently applauded. The other erratic severs I mentioned, are to be cured in the same manner with those which have stated paroxysins, and resemble them most in their nature; which, as they are sufficiently known from other writers, I shall not enlarge upon here.

ders trees, are seized with a fort of purild Peverge which, is appropriate, is arrended with a delinium. acid ping units, but, it increased at intervals, (for decrements this lever has remidions though never caremarificate, the exacerbation continues generally. shout four hours, during which time the fick bebase themicises in the most eldiculous manner, armating the employer ents which they exercised while in health, and babbling out all the most leaves transactions of their lives, to the no fmall. enversamment of the by Handers. It's likewist attended with a Boome of carnine appetite, to that while the patients are in a delinum, they eat every thing that is presented to them, though it be of the vilett and most abominable kinds, and by the help of an applied ald

&C. Bire would realise in discussed their melevision from

CHAP XV. Cambon fini

the cusules of this comment, was solden becated to the services.

Of certain Fevers, which the inhabitants call Tymos renfes, peculiar to the Indies.

frindle there total ill above a the builded in the total

HE people who fail to the islands Solor and Timor, in order to cut down the faunders trees, are seized with a fort of putrid Fever, which, if continual, is attended with a delirium and phrenitis, but, if increased at intervals, (for fometimes this fever has remissions, though never intermissions) the exacerbation continues generally about four hours, during which time the fick behave themselves in the most ridiculous manner, imitating the employments which they exercised while in health, and babbling out all the most fecret transactions of their lives, to the no small entertainment of the by-standers. It is likewise attended with a Bidines or carnine appetite, fo that while the patients are in a delirium, they eat every thing that is presented to them, though it be of the vileft and most abominable kind. and die efficie of vegetable fiblies by This fever arises from various causes, of which the principal are thefe : the fmell of the faunders true when newly felled; which (on the testimony of the inhabitants of the country) fends out from its bark fome vapours of I know not what poisonous quality, and noxious to the brain*. See the history of the faunders wood in Garcias ab Orta, lib. i. chap. 17. Besides, the constitution of the air is thick, and extremely heavy for the dwellings of the inhabitants are on the highest mountains, where on account of the fituation, clouds and watery vapours prevail. The cold, likewife, is fometimes as fevere as in Holland; all which concur to produce thick humours and turbid spirits and Add to these several causes, the outtom, in this country, of cating a great deal of fruits, which as they are for the most part green, and on account of their moilture, obnoxious to putrefaction, generate bad juices in people whose constitutions have been altered by the sea, hard labour, gross diet, and an intemperature of the air. I had almost omitted to subjoin, as another cause, the fudden change of air which our people expe-

It is probable that the cause here specified is more imaginary than real: as we have no instances of putrid severs being excited by the effluvia of vegetable substances.

rience when they descend from the cold anountains to the shore and the ships, where they are scorched with heart for this island is fiturated towards the south, about ten degrees from the sequator. And, as Ovid says, as a mold and an

Cum modo frigoribus, calido modo fringimur æftu.

Tempore non certo corpora languor habet.

What are also greatly to be guarded against, are the winds which blow from the mountains after midnight, in Java and the circumjacent islands right as in some of the southern parts of France and Italy, especially in the kingdom of Naples, and the territory of the Pope, the cold wind which blows from the hills, and is called the series, produces pleuristes, peripheumonies, and other seute disorders, whence Horace remarks and other seute disorders, whence Horace re-

pritrefaction; generate bad mices on people who?

The cure consists in gentle purging, and a clyster being premised, in immediate blood-letting, which in plethoric and strong people, should be carried to the point of fainting. Let cupping glasses be applied to the neck, shoulders, and

crown of the head, Maved. The matives burn the temporal arteries by means of a bit of hot metal, with prodigious advantage, as they allo do in all chronical pains of the head. The morbid humour may likewife be conveniently purged off with my brother's electuary before mentioned. "And I have learned by experience, that vomits of crocus metallorum, and the falt of vitriol precipitated, are extremely useful in this disease. the watching, which increases the phrenzy, should be perpenuel, we may use, besides other narcowire medicines, my extract of laffron, either made binto a pill, or difforved in wine. All thefe gegeneral remedies being adminstered, the tempead ot al mird box the violence of the paroxylin at the lame ad ot al mird box rayil trand of a remillion which is corrected by sudorifics and diuretics, as also by antidotes, fuch as bezoar, and rafura cornu rhianoderotis, and by cooling conferves and fyraps, which I have fo often had occasion to mention. appetite itill is projerate,

To this article we shall subjoin the account of an endemial putrid sever at Bengal, extracted from the inaugural differtation of the ingenious doctor James Lind, printed in the violes and guildmelar, look but the vyear 1708.

This fever, which attacks suddenly, commences with a

This fever, which attacks suddenly, commences with a series of the deposition of the strength and spirits. A variable coldnels succeeds, with vertigo, naules, a tremor of the hands,

and excruciating pains of the head and loins. The face is pale, the fkin generally dry and constricted, the eyes dull and heavy, the pulse quick but small, the respiration, for the most metal, with productions advantage and part, difficult, and interrupted the guidof the barquist of the part, difficult, and interrupted the part, and interrupted the part,

As the paroxylm advances, the coldness is intermixed with wandering heats, which, increasing fait in violence, become permanentin The nausea rifes in severity, and sometimes produces remiting. A great quantity of bile is thrown up from the flomach, and frequently also discharged downwards.

The flon reddens, the eyes become tunid, and sometimes

The flon reddens, the eyes become tunid, and sometimes

Supplied to the flower of the much inflamed.

The pulle grows fuller, and the breathing more difficult, with great reftleffnels and thirty which however, on account of the mules, the parient is quable to affuage in The tongue becomes foul, the pain of the head and loins more fevere, and a moisture appears on the face, which, gradually diffusing over the body, the violence of the paroxyfin at the same of at mixed but never the paroxyfin at the same time decreasing, betokens the approach of a remission which is corrected by fudorifics and duretics bedriffenosa

int The pathe fiche returns almone to as instante nate in The pain of theshead and loins, however, continues, ethough much diminified : there is a differentile take in the mouth, and the appetite still is prostrate.

This remission is soon succeeded by another paroxysm, which begins not with fo much of a tremot, but a greater putral fever at Bengal extracted from the inaugur and pain of the head, extreme reftlellines, a cardialgia naulea, and and printed in the motivous doctor (annes Lind, printed in bilious discharges by vomit and stool, resembling the colour of line water. Great heat, immoderate thirft, and delirium super-This fever, which attacks baddenly, commences while the trength and barrish and brains. A variable cold the teeth and infide of the lips, is covered with a black cruft. The breath is hot and fetid. Again, a sweat produces a remission, which, however, is of shorter duration, and less con-

A third paroxysim comes on, in which all the symptoms are aggravated, and the vomiting and stools more settid. The tongue becomes so dry and stiff, that the patient scarcely can speak. This paroxysim often proved mortal.

Such generally were the fymptoms of this fever, which, however, were fometimes different in the different feafons of the year. And though most commonly the skin was dry till towards the end of the paroxysm, there were cases in which it was most, and covered with sweat from the beginning.

The gentleman, from whose treatise the description of this sever is taken, imputes the production of it, with great probability, to unwholsome diet, and air, which is contaminated by the putrid effluviance the markes abounding in the bay of Bengal, and markes abounding in the bay of

With regard to the cure of this fever, the method is in general the same as in others of the putrid kind. It descries, however, to be remarked, that on the testimony of a judicious practitioner, corroborated by the author of the inaugural differentian, the peruvian bark has been successfully administrated in remitting severs in the East Indies, even during the paroxysm. And from instances in our own country of the good effects of exhibiting that medicine through all the stages of these severs, perhaps there is reason to adopt a still more unlimited use of the sebrifuge, than, with all its extension, has hitherto been recommended by the most eminent writers on the lastice. The lastice and the lastice.

greentain penalty or if we conquire, farther into the origin of this dust det we that have full more.

million, which, howe et a of faorter duration, and left con-

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Of Blindness, and a weakness of Sight, to which those are liable who fail to Amboyna, and the Molucca Islands, and in the circumjacent friths.

it will most entack of course it commonly adjusting it

differentiement from which treasure recordited of any HE people who fail to Amboyna, Banda, and the Molucca islands, are often troubled with a weakness of fight, and even a total blindnels, arifing from thick and viscid humours stuffing the head and brain, and obstructing the optic nerves: which blindness, however, is not perpetual, but often ceases upon a change either of air, or better diet. The inhabitants of these islands impute it to eating hot rice; and that such is really the cause of it, seems to be confirmed by Hence the people of Java and Malexperience. divia expose their rice, after being boiled, to the cooler air, or winnow it with a fan : and our failors are prohibited from eating hot rice under a certain penalty. If we enquire farther into the origin of this diforder, we shall have still more

the cayle here affigued p For this rice his always fown in wet and marthy places, whence it constructs something of a forculent and moist nature, which penetrates farther when hot than scolden the finell of even serude and dry nice loads the head, and brings on a drowlinels, a to a series into a series on a drowlinels.

every where here we meet with inflances.*.. The method of cure I commonly use in this diforder, and by which I have recovered many to their former state of health, is this. First, the head is to be purged, and the stomach cleansed of the gross humours, which fend up these vapours go the brainer This intention will be best antwered by the purgative pills of Reinerius Bontius above delcribed Then, the findatories of the powder of tobacco, &c. and matticatories are to the used. Bleeding is likewise advantageous, But the grand specific in this disorder, and a medicine of which I have often experienced the virtues, is the liver of the fish Lamia, eaten crude with This fish is called in Dutch een Haye: and falt. when exposed to the fun, there diffils from it an biliness, named in the same language Traen, which, anointed upon the eye, is an immediate remedy, owing, without doubt, to the peculiarity of its subfrom possessing a similar quality, that they are rather of manifest injury. Upon the whole, though this blindness is often transitory, yet, if neglected, and an improper diet be persisted in, with an unleasonable use of arrac, it often degenerates into a total deprivation of light, of which every where here we meet with instances.

That the disorder here treated of actually proceeds from eating hot rice, seems extremely problematical a since the author acknowledges that it is cured, not only by a change of diet, but of air. Perhaps the description may not authorize the conjecture; but as the disast is transfery and yields to evacuations, it would appear to be no more than greatery degree of the mychalopia, or night-blindness, which is the quent in the torrid zone, and cured by bleeding, purging, and the root of wild valerian.

to the uted by theeding is like wife advantageous. But the grand specific in this dilorder, and a the cicine of which forther, and a the cicine of which the intensity of the title haming eaten crude with falt. This file is called in Dutch win Hope: and when exposed to the dance there dishis from it are oiliness, named in the same language Traen, which, anointed upon the eye, is an introdiate temody.

OF SOME EXTERNAL DISEASES OF THE BODY, IN

with bile and melanchelic humour. It is

ous that caprio all the light of the leader, and rough with teales, where here we men and rough with teales,

which are endemic in these remote places, passing over the slighter affections which happen daily here, as well as in our own country, I now propose to give an account of some external diforders likewise familiar in the Indies.

Among these the principal is the herpes, a most troublesome kind of impetigo, or tetter, which chiefly seizes the arms, breast, groins, face, and sometimes even the whole body, with so intolerable an itching, that those affected with it, cannot refrain from scratching themselves night and day; but the soothing sensation arising from that exercise, is of short continuance; for great pain ensues, while the sharp and saline humour vellicates the tender parts that are now deprived of the cuticle, and the shirt, which adheres to the

fcabs, cannot be separated without their laceration. The natives call this diforder the cowrap, a word fignifying every kind of fcab. The cause of this cutaneous affection is a falt and nitrous pituite. mixt with bile and melancholic humour. propagated by contact, and is forextremely infectious, that few escape it: tho' this disorder rend ders the fkin deformed, and rough with feales, yer it is productive of one great advantage, which is, that a person while affected with it, is scarce ly ever feized with any other dangerous complaint. On the other hand, when the cowrap disappears! fuddenly, it prognosticates the approach of fuch an illness; the peccant matter, by a metalfalis, being carried to some nobler part. For that reason, there are people in this country, who, after experriencing the disorder some years, are little folicitous of being cured. But we who know that when the cause is removed, the effect ceases, know, likewife, that what the yulgar regard as wholfome in itself, proves only such by accident, and that the discase of the cowrap is a happy effect from a bad cause. Just as in a gonorrhæa virurulenta, where, the liver expelling the venereal virus to the parastate glands, and thence to the penis, the fufferers comfort themselves in the difeak; though it is well known to thole who are business and down to thole who are in any degree conversant in medical practice, that, if the gonorrhæa is not cured, a lues veneral must enlue.

If this disease be neglected, especially in melancholic and atrabiliary constitutions, it changes into the lepra of the Arabians, or, what is much
worse, the elephantialis. The cure of it, in the
beginning particularly, consists in evacuating
the motbise cause, which may be successfully
performed by the purgative medicines so often
mentioned. For unless general remedies are premised ait will be vain to have recourse to topical
applications. The following excellent powder I
have administred with great advantage in this, as
well as other melancholic diseases.

Calcis vivæ ex conchyins uftæ 3n. A conchyins uftæ 3n. Fincentur vix , rotsbrum sanst ucc pomo know Fincentur to the constant sanst ucc pomo turn antons.

That the application of this representation of the hidror of the siving representation of the send for the send for the send the

Among the best topical applications, is one which was communicated to me by the reverend and learned Mr. Justus Heurnius, a man of lingular proficiency in every part of knowledge.

If this difease be neglected, especially in Melancholic and atrabuliary conflicted is sinigurary
to the lepra of the Arabians. It. and the lepra of the Arabians. It. what is much sorie, the elephantialis. I he core of it the elephantialis. I he core of it the clephantialis. I he core of it the clephantialis.

These troches or balls are to be dissived in vinegar, with which the parts affected with the compare to be touched at night, and which, for the sake of cleanlines, may be walked off in the morning. If it should not prove effectual, applications and an agent advantage and in egent advantage and in the sake th

well as other melancholic diteates.

Opii 3 ss.

Fricentur in marmore, cum fuced pomorum amoris.

Turbith alb. az z viu.

Turbith alb. az z viu.

That the application of this remedy may be more successful, the scab of the herpes should first be scraped off, and the ichorous matter wiped away. For the same purpose, may be used the oil of gum benzoin, with mitte, and of sale prunel,

With these the juice of lemons may very advantageously be mixed, together with prepared tutty, or ceruse; by which topical remedy alone, with a dose of physic previously taken, I effectually cured myself, when my arms and breast were insested with this loathsome disease. The diet here, as in all cacochymic cases, should be moderate, and consist of such aliments as yield good and wholsome juices; the choice of which, to avoid tautology, I shall leave to the judgment of the physician.

The cowrap is a disease very common among the inhabitants of the torrid zone. It is cured by mercurials, antitimonials, sudorifics, and the external application of the flowers of a shrub, called in the West India islands the French guava bush.

whole external fracts of the body from top to toe, with great and frieffilible itelling to proper newty come from the country fleshoffe affected with this eruption as well as the little of the mufqueroes, than those was fragilised in it founds time; for that it is a common justification of the horizon to the empirical of the way of riducible that he who has the erupticiped is Orang some income a now ce, and therefore the that the times and papelles chains a ribute of milk.

and a every firshly apparity of mercory tofembor between the their age of alce of alcertanous may very sall transactions of the contraction of the

CHAPTER XVIII.

Of red Pimples, or Wheals, bulgarly called in Holland.
het Rootvont, and troublefome fleashieth oxym

diet here, as in albeadochvine the wholende

HOSE emptions which Cornelius Celfus the Latind Hippogrates thealts papeles Pliny fudamina, vand the people of Holland Rootvont, are so common in this country; that I never yet knew one person here, who escaped them, no more than the bites of the fleas which the Portuguese call mosquitas. The pimples are of a red colour, fomewhat rough, and thrown out upon the skin by a sweat. They infest the whole external parts of the body from top to toe, with great and irrefiftible itching. People newly come from the country are more affected with this eruption, as well as the bites of the mufquetoes, than those who have lived in it some time: fo that it is a common jest here, to fay, by way of ridicule, that he who has the eruption, is Orang Barou, meaning a novice, and therefore, that the flies and papulæ claim a tribute of milk

have been longer in the country, call themselves, bootsfully, Orang Lamme, or veterans.

This troblesome complaint, as far as it is an eruption, is to be ranked only among the cutaneous diseases: but if treated rashly, and the skin be wounded by the nails, the wheals, and likewise the bites of the musquetoes, often produce foul ulcers, which are malignant and difficult to cure.

Sic neglecta folent incendia fumere vires.

Restuent, are so consumon in this construction I

To abate the uneafy itching, I advise the parts affected to be touched with a linen rag, dipped in a mixture of vinegar and water, with the addition of nitre, or salt prunel, and if the composition is desired stronger, the fresh juice of lemons. Though by the use of this application, the pain at first may increase, yet it soon vanishes, and is much more tolerable than the itching. By the way, I would earnestly dissuade physicians and surgeons from ever giving purgatives in this disorder, though they were even of the mildest kind, left the acrid bilious matter being there-

by translated to the intestines, should occasion and dysentery: but let them rather leave the cure entirely to nature, or promote the excretion by fuldorifics; for I have more than once observed such mischief produced by negligence or imprudence.

eruption, is to be canked and countries of the countries

the veneral literic for they defice and large per

To abore the uncelly which as a feeled to be concluded with the stands and to dition of name, or felt property of the control of the pain at first may take the control of the pain at first may take the control of the control of the pain at first may take the control of the co

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but so acrid and corrolive as to cause deep and hollow ulcers, with inverted lips; a nafty and tigly difeatalix! fin. In the time venerea, but that it is not attended with 15 much pain, not

Optople Gammata, and Ulceratione, candenie in the Island of Amboyna, and especially the Moluccas; which the Dutch call d'Amboynse pochen*. This difference owes its origin to the peculiar

THERE is an endemic or popular diforder elog of in Amboyna, and the Molucca islands parreicularly, which in its symptoms resembles much "the Venereal difeate, But they differ in this respect, that the former is produced without any venereal sembrate livThere break forth on the face, arms and legs tophi of the sumours, at fight hard and Tehirious, and foread as thick over the whole body as torns and watts grow on the hands and feet "The our collibry?" If their timours happen to alcerate, they discharge a wistid and gummy matter,

may be added the unreasonable drinking of a liand the prickly-heat: and the maned lacuer which is procured from the
today legistrates and the procured from the second lacuer which is procured from the second lacuer with the procured in Committee. The best method of curing it is, to observe temperance, who moderate exercise, and support a free perspiration by drinking warm sliquids, and avoiding a further transition no de palma estal quel hus, eved trigir inishes este

quantity, intoxicates like wine or ale, and is hurt-

but so acrid and corrosive as to cause deep and hollow ulcers, with inverted lips; a nasty and ugly disease, and similar to the lues venerea, but that it is not attended with so much pain, nor do the bones so easily become carious, unless by neglection the cure, a product to brass add

that case which the Durch call d'Amboynse pochen* This diftemper owes its origin to the peculiar nature of the climate and foil sto the sis jungted with fall exhalations from the fearn and to gross and pircitous diety fueb as is yielded by most of the fee fifty of which great plenty is caught base, and which the linkabitants quiltantly feed upon. as the country affords little other provisions a What likewife forestly contributes in produce this dictilities the sic of a viscid subfunct conticionis catenioses the whole country infead of bread H is coalled fago by the inhabitants, and is a four Maken from the bark of trees of To their causes. This diffeale is called by the English the prickly-hear: and the mort borucore at haidw. Thus all mort borucore at haidw. Thus all many form arrival filling generally lerges all trangers foot arts their arrival filling. tree almost in the same manner with that taken cofree the palma indica, or cocos tree which the somhabitastis call towar, and the Portuguele vinho de palma. This liquor, drank in intinbderate quantity, intoxicates like wine or ale, and is hurtful to the head and nerves: whence also in these islands, the species of palsy, already spoken of under the name of the barbiers, is pretty frequent.

As to the cure, it is not very difficult, provided that the disease be recent; but more tedious if that is inveterate. It requires almost the same remedies as the lues venerea, obstructions of the fpleen, leucophlegmatia, the dropfy, and other chronical and obstinate distempers. Decoctions, therefore, are to be made use of, prepared of the roots of china, farfaparilla, guaiacum and its bark, in which two handfuls of brooklime may be boiled. The percant matter is aftorwards to be discharged by the brisker cathan tics; for the gentler kinds are of no advantage here. Such are gamboge and elaterium; and if these should prove ineffectual, we must have recourse to chymical and mineral preparations, as mercurius vita, or butyrum antimonii, turbith minerale, and mercurius præcipitatus albus. curial ointments, likewise, properly prepared, are to be applied externally: all which may be met with in Crollius, and other knowing and ex-I was currous to investigate the came of 183 revised

a diforder : wherefore, calling Mr. Andrew Doc-

ful to the head and nerves: whence also in the sillands, the species of palfy, already spoken of under the name of the saudacamos pretty frequent

OBSERVATIONS

edding the difference of the more redictions of the investment of the control of the fame redicted as the lues venered obtained on the fame of the investment of the difference of the lues venered obtained on the fame of the fame of the chronical land of the dropfy, and other chronical land of the dropfy and other tions, therefore, are to be made use of, prepared of the cost o

Soldier, who being drunk had lain the whole night on the ground, on awaking, was to night on the ground, on awaking, was to fuddenly feized with a spalm, his body bent backward, that he remained perfectly stiff and crooked. When brought to the hospital he was put under my care. He looked herce, could swallow nothing, and spoke inarticulately, as with with the voice of a perion under ground. The died within four days, in extreme torment, after all the remedies I have mentioned in the method of cure, had been administered without any effect.

I was curious to investigate the cause of 10 severe a disorder: wherefore, calling Mr. Andrew Du-

theus, the most expert surgeon of the Dutch hospital, we opened the body. We found the vital parts, fuch as the heart, and lungs, and the natural organs, as the liver, stomach and spleen, all We justly suspected, therefore, that the found fource of the evil lay more deep. We laid the brain open as far as the ventricles, which we found to be full of a viscid and glutinous matter, of a yellowith colour, like the yolk of an egg, but extremely fetid. This, preffing upon the origin of the nerves, had been the cause of such direful lymptoms. The veins running through the meninges of the brain were quite turgid with bilious blood. He died in the month of February 1629. An enligh who kept guard in the fort, called Rubin's rampare, was feized foon after bin the lame manner: but, belides the symptoms mentioned above, his right cheek was to contracted with the cymic spalm, that during the whole paroxylm, he could not utter one word, and died in twenty four hours; a ftrong and robust young the foundation of the lamentable difeate, of which

extenuated to the last degree, he died the 19th

I with August's be javelbeare the cause of it seven a disorder: wherefore, calling Min Andrew Du-

recus, the most expert surgeon of the Dutch hospital, we opened the body. We found the vital parts, solli MOLTAN VARIA & God the matural organs, as the liver stocked and spleen, all sound We justly suspected, therefore, that the beauty open as samithmental odw noirs and praise open as samithment of child of a viscid and glue sous matter.

LIENRY N. N. a Danish merchant, who alay fick in the house of Ambrose Vander. Keen, theriff of this city, was diffected after his death by Mr. Andrew. Both lobes of the lungs adhered to firmly to the pleura and disphragm, as not to be separated without laceration. In the right fide, where he had felt the most pain, were found pieces of the bronchia, which had been torn from the substance of the lungs, together b with a great deal of fanious matter, fuch as in his life time he had copioully spit up. His voice was fhrill, like that of the African cocks, or those of Calcutta. He had laboured under a spirting of blood for a long time before, which laid the foundation of this lamentable disease, of which, extenuated to the last degree, he died the 19th of August 1629. tich orbite to terefore that essentialed of De Arch

remaily, were in appearance found; but on being diffected, there run out a great deal of green, and exceedingly found puss; and the right lobe

of the lungs adhered to the ribs. It is remarktype that among the many bodies I have diffected.

By order of the governour, Mr. Adam, furgeon of the Dutch garrison, and I, opened the bodies of some who had died of the Dysentery, which raged epidemically among us when we were beliefed by the people of Java. One of those who were opened was a foldier. His intertines were greatly inflated, and deprived of their inner coat. What was most extroardinary, the gall-bladder was full, and distended with a viscid white humour, like the pap made of starch, which the women in Holland call styffel. There appeared not the smallest vestige of any bile,

Of a Person cured of an Empyemach

consoully strik up.

Soldier. VPO N Off RV RESERVITA

Of a Man whose Lungs were full of purulent Matter.

Day no fyanfoldier who died of a confamperior tion ball he dublance and colour of the lungs bexelying

diffected, there run out a great deal of green, and exceedingly fetid pus; and the right lobe of the lungs adhered to the ribs. It is remarkable that among the many bodies I have diffected, I never observed the left lobe alone to adhere, but either both, or the right only. The reason of this I confess I know not, unless it be that the vena azygos, or fine pari is wholly in the right we fide, and on being burst in the pleurify by violent we coughing, throws out this matter. Hence, like out right side.

gall-bladder was full, and distended with a vifcid white humour, like the pap made of starch,
which the women in Colland cash will have
appeared not the smallest vestige of any bile.

Of a Person cured of an Empyema.

A Soldier, who had drank immoderately of arrac, was carried into the fort entirely stupid and motionless. We did not imagine that he could furvive the night: however, partly by vomiting, and partly by sleeping out the debauchorhe was seized next day with a violent pleurify on the right sides and though the pain had much abated

milers the confequence of which was an Empyamilers the confequence of which was an Empyamile Assigned his strength remained unshaken,
nor was he now molested with any great degree of
fever. We therefore applied the potential cauters between the fourth and fifth ribs, and opened
the escher asterwards with a knife. There flowed
out a great quantity of fanious matters together
with some putrified pieces of the membrane
which lines the ribs to By proper syringing he resovered beyond all expectation; and, at the time
Lam writing this has set fail for Malaccaminus

which time the whole bone, comprised within the lambeloidal future, was taken out in splinters, a little above in Ole Town McAlle and or toothlike vertebra of the neck is inserted. He returned links but for surface with shall an arms of the second of No

Sailor who was cleaning his welfel in this a pole, that it might not firike against the ship, happening to stoop down in order to disentangle the cable, the boat in the mean time unfortunately dashing, by the force of the waves, against the ship, had his head so terribly jammed betwirt the vessels, that it was though to be shaped.

tered to pieces. He immediately became senselels, and, the blood guffing out from his mouth, ears and note, was carried to the hospital. When Mr. Andrew and I vifited him, we looked on his cafe as defperate. bake first we found a very large confusion in the back part of the skull, from which, after opening, we extracted a great deal of concreted blood. Next day, when all was cleaner, it appeared that the skull was broken to many pieces : on the removal of which we profecuted the cure in the usual manner believe. mained under our care about fix months y during which time the whole bone, comprised within the lambdoïdal future, was taken out in splinters, a little above the hole in which the first or toothlike vertebra of the neck is inferted. He returned to his own country in the month of November, perfectly reftored to health; wearing on the back part of his head a plate of filver, of the form of half an helmer, which was given him by governour Coen to defend his brain from any inhappening to thoop down is order to difentande the cable, the boat in the mean time unfortynately dashing, by the force of the waves, against the ship, had his head so terribly jammed betwixt the veffels, that it was though to be flustthis perfon only, but many others. This is the effect of drinking too much of that curfed arrac, IIV NOITAVAJESON made of rice and the holothurit. And as medical

writers alledge, that the sea here (which as well as the sepration of the sepration of the holothurn) possible the sepration of the holothurn) possible the sepration of the holothurn of the holothurn.

of dethe fifth of September 1629, we opened on the body of a German foldier, who shad languished, hear a whole year, of an ænuginous flux of the belly, dry cough, great difficulty of breathing, &c. The omentum and mesentery were almost entirely confumed, so that the inteftines adhered together, for rather were confusedly mixed, fmall fibres growing out of them here and the said The spices, was contracted to the fize and hape of a little hall in fuch a manner as to be much less than the kidneys. The liver appeared sof fo many rodlours, wan, pale, a yellow and development of well swelp and add of the gall bladder, far larger than usual, was differeded with ardelinous dile wither flomach and lintellines which were eroded, contained likewife acquianed tiby soft state thumour. a The might ribbe wofbahog langs foldibered to the ribs and diaphragm, as to a appear inteparable of The reader will not bedforw pried wither difficulty of coming factorive ling but cation of embiders; which I have observed not in this person only, but many others. This is the effect of drinking too much of that cursed arrac, made of rice and the holothurii. And as medical writers alledge, that the sea hare (which, as well as the sæpia, is a species of the holothurii) possesses a venomous and peculiar quality of closing the lungs, I am much of opinion, what all these vile commodities are endowed with the fame design of the structure powers.

of breathing, &c., The omenum and melencery were almost entirely consumed, so that the intel-

tines adbitty to O.I. T. A. V. A. E. B. O. uladly

mixed, small shores growing out of them, here and thick still and ador and with the still and a still and a still be much less than the kidneys. The lives

Dispersion 7, 1629, there was opened in my appreciate, the body of a Dutch man who had languished three years of a strange and under countable disorder. For, if lany person put his hand for other navel, or the reabout, it was rewelled by a strong pulsation, as of the heart and arteries, replembling the leaping of a child in the wombenear the time of the birth, all found by the following experiment that the pulsation was synchronous with that of the arteries. I daid my left

hand upon the person's navel, and with my right touched the artery in the wrift, when it evidently appeared that the fystole and diastole happened in both at the fame time. From thence I concluded, that the great artery was affected, and the diffection confirmed my conjecture. For the vena cava, instead of blood, was filled with an adipose substance, resembling the medulla spinalis which by its weight preffing upon the conrigious artery, the latter to free itself from the incumbrance, excited the pullation. The great dittery was twice larger than usual, and full of black and ferous shlood in Mr. Andrew likewife different the there which also was uncommonly a large and flacid, and preffed together like a spongels Each ventriele too was increased in fize, and replete with the fame fort of blood Was itinor amazing that a person in such a situation could live fo long a time? The liver was of a vivid colour, and found confiftence but almost double its ordinary bulk. The gall-bladder equalled in magnitude that of an ox, and was stuffed with a blackish green, viscid, and ropy bile, of chaosconfiltence boffes thick fyrup, overther an textracts Like died the feventh of Jegramher 1629. in the upper part of his forehead. The furgeon,

hand upon the person's navel, and with my right touched the artery in the wrist, when it evidently appeared that the value and diastole happened in both at the same time. From thence

cluderal ad in sandhoquil no foas affected

N English soldier was leized with an inflammabe tion of the liver, which, yielding to medicine no farther than in an abatement of the pain,
terminated in the hepatic flux; the rumour,
which had been formerly in the hypechondria,
manifeltly disappearing. After languishing fix
months in a miterable manner, he died, wordly
extendated both opening the body, we found
knowing of the liver but the membrane formindinglit, protry thick like a lack, in which there was
fill a little famous mater refembling the water
wherein delighad been washed, and but has he had
fait up the a long time. He died in Aprily 2619,
a to saw revit and frame and of evil bluot nor
und flortly by EFR VA TIPO N. Woloo biviv

ble its ordinary bulk. The gall bladder equalled flat aw lund set speeder, baseH set to know the to un magnitude that of an ox, and was fruited with a blackish green, visited, and topy bile, of

Nd Mayo 1629. I was called by a furgeon to out wife who had received a wound in the upper part of his forehead. The furgeon,

who had enlarged the wound a little about three months before, trufting to his instrument, called a provette, while he felt a roughness in the cranium, and os frontis, suspected there was a fissure, and as yet remained of that opinion: but when I examined into the case, I found, that what he imagined to be a fiffure was only an extension of the fagittal future to the nose, as sometimes happens by a lufus naturæ. Wherefore, taking the furgeon aside, I shewed him his error. By this time, however, the bone had been affected by the air; for which reason, I caused the patient to be carried to the hospital, to Mr. Andrew, and it is now the fixth month that he has been under our care. We took away a piece of the bone from the coronal future as far as to the os temporale, or petrofum, and a large fragment from the other part. We also took away two parts of the os frontis, diftinguished by the elongation of the future, which are still in the custody of Mr. Andrew Duræus: and at this prefent time, November 10, 1629, the wound is healed and cicarrifed; the patient goes aboard a thip to-night, in good health, and in three or four days will return to his own country.

in the upper part of historchead.

OBSERVATION XL

and aireduction i business six limited the said

Of a suffocating Catarrh in his excellency John Peter Coën, Esq; governour general in the Indies.

the and or more a full properties was a full and

JHEN our worthy governour Coën was for some time ill of a diarrhæa, such was naturally his fpirit that he abated nothing of his usual diligence in all the offices of his ftation; and when I have advised him to consult his own eafe, and take care of his health, he would reply, that he had not leifure to keep his bed, as if he had faid in a kind of prediction, that a general ought to die in the discharge of his duty. length, on the 19th of September, about eight at night, I was fent for to visit him in the fort. I found him labouring under a difficulty of breathing, and a dry cough. The external parts of his body were cold, and there was a cold and clammy fweat. His stools, which had been preceded by bilious vomiting, were very copious, flatulent, watery, and full of bubbles. The pulsation of the artery fo languid as scarce to be felt, and, at the fame time, creeping. After weighing all thefe

symptoms, I immediately declared, in the presence of their excellencies the counsellors of the Indies, Mr. Anthony van Dyemen, and Mr. Quirin a Raemburch, that the governour general was just a dying. Aftonished at the mention of so sudden an event, as the governour, but a very little before, had been talking with them familiarly, and imagining his present situation to be only a casual fainting occasioned by vomiting; they wondered, they faid, that I could pronounce fo rashly the fate of fo great a man. I replied coolly, that I had never discredited my profession by passing any rash and unwarrantable judgment; but wished in the present case that my prediction might not be accomplished, Before one o'clock in the morning, however, the governour expired in a convultion, which I had prognofticated a moment before. The fate of this honourable gentleman will not appear furprifing to those who confider his shape and stature: for he had a long neck, and prominent shoulders: his complexion was pituitous and melancholy, and obnoxious to the confumption and fuffocating catarrh of which he died.

have true stapping. After weighing all these

OBSERVATION XII.

Of a person who died of a Wound in the Breast.

On the 16th of September 1629, John Dragon, a Dutchman, was wounded in the breast with a sharp pointed instrument, which penetrated the os sterni into the lungs and cesophagus. A fever and hiccup supervened, and he died in eight days after he had received the wound. We opened the body, in the presence of the magistrate, and found the parts afore-mentioned hurt as we expected. The thorax was full of serous blood and drink, which had slowed out of the cesophagus.

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OBSERVATION XII.

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ON the roth of September 1020, Ibhn break wir is and Ibhn Dracon, a Draconnen, was wounded in the break with a shap pointed in the neemed the os them into the langs and celopiance with the cast the break and he will be said the break and he will be said the break and the died in cash days are the had required the

the year 1628, while we were belieged of the people of Java, the honourable Mr. I honed to My eiler, a member of the Indian countries of the inio a continual fever, and afterward a office ethins with the fire, he discharged by flool exceeding black blood, with great pain, and a very offer five timel. At a very offer hoought of was adminifered he died. In the last frage of his illness, there appeared black and livid spots over his body, like those we call people of the body, like those we call people of the body, like those we call people of the body and letter those we call people of the body with a coler and letter these we call people of the body.

A few gave after, Mr. James a 19.

way, of a green and malignant kind of dylentery ; many live of got a seef suporg the former,

appearing on his legs and arms. OBSERVATIONS

ON EPIDEMIC DISEASES IN THE INDIES,

OBSERVATION I.

Of an Epidemic Dysentery, T', the fame time William Wyntgis, a coun-

the Of the Joine Epidemie Defentery.

N the year 1628, while we were belieged by the people of Java, the honourable Mr. Jeremiah de Meester, a member of the Indian council, fell into a continual fever, and afterwards a dyfentery, which was then epidemical. Along with the fæces, he discharged by stool exceeding black blood, with great pain, and a very offenfive fmell. After every remedy that could be thought of was administered, he died. In the last stage of his illness there appeared black and livid spots over his body, like those we call peepercoorn, with a cold and fetid sweat,

A few days after, Mr. James à Dooreslaar, fecretary to the governour, died in the fame way, of a green and malignant kind of dysentery; many livid spots, resembling the former, appearing on his legs and arms.

OBSERVATION II.

Of the same Epidemic Dysentery.

A T the same time William Wyntgis, a counfellor of the exchequer, and my intimate friend, was seized with the true dysentery, accompanied with great pain; which continuing five or six days with a high sever, after every thing had been administered, that the violence of the disease, and the urgency of the case authorised, to my inexpressible sorrow, and the grief of all good men, this excellent youth was snatched off. Livid spots were so numerous over his whole body, that you could scarcely place the point of a pin where they were not to be found.

A, few days after, Mir. James à Bootellast, fenterafy na the governous, d'ed in the fame

B To boil mangating bin foster & T

osts the verter wing any form-

OBSERVATION III.

Of an ardent Fever, Dysentery, malignant Ulcers, &s,

of to Tue Lesigners w

THE reverend and learned John Cavallerius, a preacher of the gospel, was seized about the same time with an ardent sever. An atrabiliary dysentery supervened. Which after continuing some days, there broke forth, under the arm pits, about the loins, the groins, and the neck, pustules and vesicles full of green purulent matter, which eroded the field, and at first gave us hopes of a criss. But the Dysentery not abating, and the sever increasing with a phrenzy, that virtuous and learned young man was removed from the world. Then also, the beautiful children of Adrian Blocq died of the same malignant Dysentery.

sound, tracted, but the participal very line of their

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OBSERVATION IV.

An Inquiry, whether Epidemic and Pestilential Diseases rage in the East Indies.

Have produced these few examples, out of fix hundred, in order to invalidate the toftimony of those who deny the existence of epidemic and pestilential diseases in this country. Whatever name others may call them by, I care not: but I am certain that the dysentery I speak of was contagious, and feized many at the fame time, and quickly. Let us consider the state of the case. We were closely shut up by thirty four thousand of the troops of Java, commanded by the experienced Tommagom Bauraxa, a man of diftinguished bravery. We had daily skirmishes with the enemy, many of whom were killed, not only in our fallies, but their own affaults: and their bodies, which were thrown into the river, corrupted the waters. The air likewife was tainted by the putrefied carcafes of men and beafts that had died of famine or wounds, and lay unburied in the fields. Besides, the waters were vitiated by fome thousand baskets

full of the root of Serpentaria, which the Indians steeped in the river, in order to divest it of its poisonous quality, and that glutinous substance, which, if we put the water, wherein the root has been infused, into a glass for a few hours, we may observe fall to the bottom like the white of an egg. They likewife used the root toasted instead of rice, of which there was a fcarcity in the camp, as they had expected to take us at the first attack, and not provided for a long siege. This will not appear so strange to those who know, that in the West Indies the root of casavi is used in place of bread, although the expressed juice of it is immediate poison. But to return to my subject. We must add to the noxious diet, the drinking of falt water. For, by means of the winds which blow from the fea at stated periods, the fea. water is forced into the river, and infects it with faltness: and we durst not go higher up than the tide, on account of the enemy. Moreover, the river fwarmed with worms which were generated in the bodies of the dead. The feafon was the hottest and most rainy of the whole year, as being from September to the beginning of February, when the weather is constantly

wer, and the sun vertical. By these various causes, I myself was also bed-rid sour months, in the most imminent danger. At first I was seized with an ardent sever, then a dysentery which increased, and for a month past I have been afflicted with the species of passy called the barbiers: all which, by the blessing of God I have survived, while my wife and sons are still labouring under the disorder.

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to vision in the day, and the winds in there are, al-

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DIALOGUES

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ON THE PRESERVATION OF HEALTH, AND ON THE DIET MOST SUITABLE IN THE INDIES.

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Of the qualities of the air, the seasons of the year, the times of the day, and the winds most common in the Indies.

bat call you the non-naturals?

JAMES BONTIUS. ANDREW DURABUS.

fiting our patients pretty early this morning, if you please we shall take a turn without the skirts of the city, before the heat of the day, and talk together of what fort of dies is most proper in this country.

Bontius.

floid with which we are to per-

A very good thought, Durzeus: especially as we observe daily, in our Dutch hospital here,

that not only the greatest part of those who are recovering from diseases, suffer mortal relapses by the use of bad and unseasonable diet; but likewise that people in good health incur dangerous disorders from the same cause. For, hence proceed obstructions of the bowels, the dropsy, and incurable marasmus. But since the ancients divided diet into the six non-naturals, let us conduct our conversation upon their plan, that we may not appear heretics in physic.

Duræus.

What call you the non-naturals?

Bontius.

Such things as are subservient to the functions of animal life: as air, meat and drink, sleep and watching, motion and rest, what ought to be discharged, and what retained in the body. The afflictions also of the mind. Let us, therefore, speak separately of each of them: and first of the constitution of the air, as being a sluid with which we are in perpetual contact, and cannot exist without.

we obtaine daily, in our Durch hospital here,

the part of sear Durang on some safe

very dry as an in a state heat of the air in this country is extremely great all the year over, I should imagine that this climate was very dry at an an are provide supercountry.

For, hence proceed obfirecrains of the bowels the droply; and inculated and inculated

Not at all. Nay the air here, as well as in the adjacent islands and continent, is exceeding moist. Many arguments might be added duced to confirm this fact, but I shall mention only one; which is, that even in the driest season of the year in these places, iron, steel, brass, and silver, contract rust and verdegris much sooner here, than in Europe in the most rainy autumns.

Such things as are subservient to the tunes tions of animal life sugarud meat and dank

You fay very right, and we know likewife, that if cloaths are laid up in chefts here they foon contract mouldiness, and, if not fornetimes exposed to the sun and winds, easily become totten. But pray explain to me the nature of the air here around Batavia.

perual contact, and cannot exist without.

£ 110]

Bontius.

The air in the adjacent country is not very wholfome, because heat and moisture are the efficient causes of putrefaction, and it abounds with flagnant water and marshes. Wherefore, when the winds blow from the mountains, they bring to us gross and fetid vapours, not to say poilenous, on account of the multitude of infects, and to infect our air. Hence we ought carefully to guard against the winds which blow from the continent, and that chiefly which breathes from the mountains about the dawn of the morning, because of the repid warmth of the first part of the night, and the pores of the body being thereby open, which confequently will be more affected by their penetrating quahiry, than in our own country by the coldest north winds in winter. For this reason, catarrhs and fluffing of the head, are more obstinate here than in Holland. Belides, the penetrating nature of this air produces that miferable species of palfy called the barbiers, which I have taken notice of in my treatife on the method of curing the diseases in India. the large often maisable, are frequent

Duræus.

You have explained to me the nature of the winds which blow from the mountains; I with you would now favour me with your opinion of those which blow from the sea.

Bontius and Andrews

I look upon these to be much more wholfome than the former. The reason is evident;
because they drive the putressed and marshy vapours away from us, and purify the air: hence
they render the spirits more alert, and preserve
the humours from putresaction,

Duræus.

What you say recals to my mind the winds called the serene, which blow from the mountains in the south of France, the neighbouring parts of Spain, and in Italy, in the territories of Rome and Naples, and which, by a moderate coolness, rather sooth than chill people, who unwarily expose themselves to their influence, and especially strangers. Wherefore, spitting of blood, consumptions, asthmas, and other disorders of the lungs, often incurable, are frequent in these places.

Bontius.

Your remark is just: and I remember that Horace elegantly observes

Matutina parum cautos jam frigora mordent.

Duræus.

But as in all parts of the earth there are annually regular viciffitudes in the state of the air, whence the various seasons are distinguished, I should be glad that you would demonstrate to me the state of the seasons in Java.

Bontius.

I shall do that with great pleasure. As through the whole course of the year, then, the changes which happen here in the state of the air are only in respect of dryness and moisture, we have, properly no more than two seasons in this country. For with regard to the variations of heat and cold, the temperature of the air is for the most part equal, as the sun recedes not much from the equator. We shall therefore divide the seasons into dry and wet, which correspond with our summer and winter.

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and lo sud : mile Durzeus. Mint an are delide

At what time then do you reckon the fum-

Bontius.

When continual rains begin to fall. For then the fun, being nearer the equator, strikes us vertically, and exhales the vapours from the fealakes and marshes. This season commences with November, and continues till the beginning of May: the rains through that whole period being fo excessive and uninterrupted, that people, unacquainted with the country, might be afraid left the deluge of Deucalion was returning, On the contrary, from the beginning of May to the end of October, the air is perfectly ferene and dry, scarce a drop of rain falling during the whole fix months. This is quite different from what happens in our country, where, when the fun is receding, the weather becomes rainy, and, as he approaches, more dry. But notwithflanding these circumstances, the ground here is much more fertile, both on account of the quantity of dew which falls in the night, and the temperate nature of the mornings and evenings,

which are as mild sarthe spring: but of that

depending on the vicinity and absence of the sun, I find that we have winter in this part

What fealon of the year do you think the of India white it is the contrary that the the contrary, that the contrary, that the

mer is here, while winter possesses our native

From what I have faid, it must be plain that the rainy season, or summer, is the most unhealthy, as the heat and moisture of the air are deservedly reckoned by naturalists the efficient causes of putrefaction. For unless the thorning and evening breezes, which prevail in that season, and the thick and cloudy conflitution of the air, protected from the heat, this country would be uninhabitable. But these fubjects are learnedly and amply treated of by Joseph à Costa, in his natural history of the Indies, which may be consulted. On the other hand, in the dry feason, and during a clear state of the air, the people here are healthy. For then, too, the winds blowing with greater coolness, ventilate and purify the atmosphere still the air But to begin with the morning. "Phat

which are a milderstild fpring; but of that

From what you observe of summer and winter depending on the vicinity and absence of the sun, I find that we have winter in this part of India while Holland is flourishing with spring and summer: and, on the contrary, that summer is here, while winter possesses our native land.

that the rainy featsuined lummer, is the most

senhealthy; as the heat and montum of it if an lare defervedly reckoned by naturalitis the effi

letet causes of swandon. For unless the

and their temperature in the molest said the

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I shall divide the times of the day into morning, forenoon, afternoon, and evening, under which we may comprehend the night. In regard to the qualities of each of these, the morning and evening are the most whollome parts of the day, and most proper for exercise or labour. Because then the winds blowing from the sea and mountains, ventrate and cool the air. But to begin with the morning. That

I call the portion of the day extending from five o'clock till nine, when foft and gentle gales refresh the air, as the breezes of May in Holland. The forenoon continues from nine to twelve, during which the heat is extremely great, but from that period till four in the afternoon, is moderated by breezes from the sea. We shall include under the evening the space of time betwixt four in the afternoon and fix, or a little past seven, when the fun sets. If any business, therefore, is to be done in the day, the most proper time for it is the evening and morning. Going abroad in the forenoon ought to be entirely avoided, on account of the violent heat; the effects of which are so manifest, that a perfon will find himself more fatigued in a quarter of an hour at that time, than in eight times the space at any other. I would advise to abstain also from business out of doors, from twelve till four in the afternoon: however, that time is not fo unwholfome as the period preceding on ot mesh

tell you the reason.

Dutzeus

Pray do.

I call the portion of the day extending from five o'clock till ininc, when fort and get tie gales SACT Clay in Hol. tefresh the Ar & U land The forencen continues from nine to twelve, during which the near is extremely great,

of Meat and Drink: particularly Flesh, and Fish.

include under the evening the space of sine he

burges and fix, or a little Aving explained the qualities of the air in these parts of India, together with the seafons of the year, the hours of the day, and the temperature of the winds, it would give me great pleasure to know your opinion in regard to the most proper times of eating. the effects of

son will find hundelt suinned farigued in a quarter

I shall chearfully comply with your request. Know then, that in general the breakfait should here be the best meal, the dinner should be moderate, and Supper light : and that I may not feem to impose these rules capriciously, I thall tell you the reason.

Pray do.

of the air increases the this and heat of the body.

It is certain that in this climate the stomach is best disposed for performing digestion in the morning, on account of the cold of the preceding night. I advise a moderate dinner, lest while we take a nap after it, on account of the heat, the stomach, being too much loaded with food, should produce crudities, and disorders thence arising. For many diseases here are owing to a cold cause.

Duræus.

Melly I cannot conceive how cold diseases should predominate in hot countries.

Bontius.

But when you examine into the cause you will be less surprised. For, by the constant evaporation of the spirits through the pores of the skin, the bowels which perform digestion are deprived of heat, and hence their concoctive faculty being weakened, they transmit crude and undigested humours to the mesentery and liver, and afterwards through the whole habit of body. It is not strange, therefore, that people who live in the northerly climates should be more lively than the inhabitants of the torrid zone; for the cold

of the air increases the internal heat of the body. Hence Hippocrates observes, that the belly is hotter in winter, and on that account says, elsewhere, that people ought to eat most in the winter.

I advise a moderate dinner lest while we take a

You have fully fatisfied my doubt: let us now, if you please, talk of the kinds of food that are either hurtful or advantageous in this country.

Bontius.

Come then, I shall regale you with an imaginary dinner, as I believe nobody has invited us to day.

Duræus

But don't make camæleons of us; you know they are faid, though fally, to live upon air.

the bowels which performed ligertion are deprived

No, no: instead of empty air, I shall fill your ears with agreeable conversation. Let us, then, distinguish food into different classes, and in the first place talk of shesh. The most wholsome of that kind is the stess of the woods and mountains, as turtles, pidgeons, quails; of the smaller

fort, sparrows, chassinches, sig-peckers, and ship about the show ship and ship about the ship about the ship and ship as the ship a

concemptible; young ones I mean: for the flesh of the old is so hard ausnud be chewed even

these aquatic fowls among wholsome meat, as they are esteemed the very opposite in our country, because living in stagnant lakes, and marshes, they feed on slime and dirty weeds.

You ask me a very surnog question. Of these,

You say right, but the case is different here. For, in this country, such birds live not in takes and marshes, but in the rivers, on which account their siesh is much better. Belides, they may be brought up at home upon rice and crumbs of bread, and then their stell becomes as delicate as that of hens and capons. Here also are crames and herons, which are not despicable food.

I know: but leaving this subject, let us next

What kind of flesh do you reckon the next in goodness?

fort, sparrows, chazuithod fig-peckers, and That of goats for we must abstain from sheep here, on account of their foarcity. Then weal and beef, the best of which we have wild in the woods. The flesh of the buffalo is not at all contemptible; young ones I mean: for the flesh of the old is so hard as not to be chewed even with the iron teeth of the paralite Plautinus. thele aquatic fowls amone wholfome meat, as

Duræus. But what think you of the flesh of wild beasts?

marfhes, they feet cauring and day weeds.

You ask me a very proper question. Of these, then, I reckon the boar to be the best; even the tame hogs here are excellent, and of eafy digestion, different from what they are in our country, and are prescribed very properly for the fick. We have here likewife a great many stags. All these wild creatures the soldiers shoot with their muskets, and bring daily to the market it as

and herons, which are not despicable food.

I know: but leaving this subject, let us next talk of fish.

What kind of flesh do you reckon the next in

goodnels?

being caught in great phenta on the coast of that

In order to do that with more precision, we shall speak separately of the sishes of the sea and steel water. Among the former, that sish which the hatives call catap, is in my opinion the best: it is a species of carp, named by the Dutch, steen-braassens, and which is sometimes taken of so large a size, as to equal the cod sish.

What think you of the gelt heads, the corco-

Are there here any of the large kind of cod which the Dutch call cobeljau.

I am of opinion that all their are species of the tunny fish, and devision both on account of

There is a species of them taken here, which our failors call Jacob Eversten, on account of black spots and excrescences scattered over its yellow skin, and resembling, as they say, the complexion of a soldier of that name. There is here, besides, a great quantity of carp, of various sigures, broad, nound, and oblong; of which the red are the best will have also most deligate scars, that serve us instead of perches, and which are described by Belonius in his observations to Adkind of salton is likewise taken, which the Maldivians calls Jean Banda, signifying a fish of Banda, as

people need not very delicate diet.

being caught in great plenty on the coast of that island. It differs from the salmon only in colour: for what is red in that, is white in the fish of Banda. But the slesh of ours is more dry, and on that account, more wholsome, if we believe Pliny, who declares, that the fat of all fish is bad, and that of eels the worst.

taige à fize, as to cetta tue od fille

What think you of the gilt heads, the corcovadæ, bonitæ, and these kinds of fish?

which the Dutch calsuinoda

I am of opinion that all these are species of the tunny sish, and dolphins, both on account of their great velocity in swimming, by which they tan surpass a ship in sull sail, and also because they leap to the height of five or fix feet from the sea, to catch water swallows, or slying sish, which have a good slavour, and when their wings are taken off, resemble herrings, both in shape and taste. But among these dolphins the most excellent is the gilt head, called by the Portuguese, dorado, because of its golden colour. The stesh of the others is harder, and consequently more difficult to digest. But with good stomachs they agree very well. Since, as Celsus observes, shealthy people need not very delicate diet.

dainties, contenting rayisifueth the fore-mention-

What of the flat les fishes to shall we configue them entirely to oblivion?

Duracus.

I have now had neuitnod of lea fift, and with meant only to referve them to the last; for without question, they are amongst the most wholfome kinds of fish. The principal in that class are, the rhomboides foles and turbot, of which the rhomboides afford the best nourishment, next the foles, and laftly the turbot, which were for huxuriously sought after by the Romans, that hence the ingenious Juvenal inveighed, with great poignancy of fatire, against the oruel and triflings age of Domitianib Wenhave likewife rayas, amouth and spotted a which, by how much the younger, are of easier digestion : for, ofrom the older I would advise to abstain, as from the lamia, school arus fish bayen, which, by their exteeme : fharpe and crouded teethe have defroved fuchahumbers of failors unwarily swimming ain the user of he fea pattnaca, by the confession of the Chinese fishermen carries a poisonous sting in itsoliail, rowbich being out off, the filbis catable, but heavy and unwholfome. Therefore I would leave stoothe Chinese and Moors their favourite dainties, contenting myself with the fore-mentioned flooks of Neptune, as Plautus calls them W

them entirely to oblivion?

Duræus.

I have now had my full of fea fish, and wish that you would next prefere me with those of the without question, they are amongst retewnshirt wholsome kinds of fish. The principal in that class are, the rhomb swinnodoles and turbot, of Immediately . First then, here is the falmon trouty or round carpy which, both in flesh and tafte, it think, vexceeds those of our country, show cause here it inhabits the rivers, not lakes and marthes, as with us fland as I formerly gave the preference to the Indian ducks, fo must blikewise to these fishes, they having less of a slimy taste, than the trouts of the fame species in Holland and They are caught formetimes of fo large a fize, white fkin, and delicate flesh, that nothing can be finer! Besides these there are in the channels of rivers the pike, which, however, whether they are dea of fresh water fish I am doubtful, But those caught in the few are certainly larger, of a white kin; and most delicious taste, either roasted or boiled. Mullets affor barders, and the species of fifty called in our country boutinek, are taken here in fo visited Goods Soil roog out Sadre, vinologes and species of the tenea, feet, of a smatthrough, without scales, taper like an eel, and furnished

These two kinds of hish, at stated wperiods, namely, from October to April, are fat and extremely delicious by reason of the rains which fweeten the falt water (for thefe fish are likewife taken in rivers). But in a drier feafon, their flesh is harder and more prickly. Bleaks too, like our voornen, are taken here in the rivers, of excellent tafte and nourishment. Also large congri, congerael, are formetimes caught in the mouth of rivers, but oftner in the fea; for which reason, I should be inclined to rank them among the fea fith a I shall now, mention the more unwholfome kinds of fish. Among these are eels, the skin of which, on the upper part, is extremely black, and below, of a dirty yellow. It is certain that they copulate with Inakes; and though many people reckon them delicious eating, yet for my own part. I dillike them, both for the reason just mentioned, and the nauseating fat with which There is, besides, a fish, covered they abound. with very hard scales, which the Malaians call jean cabosch. From the figure of the head, and other parts of its body, I take it to be a rivermullet: it lives in a slimy bottom, and favours not obscurely of its original Mareover we have a species of the tenea, feelt, of a smooth skin, without scales, taper like an eel, and furnished with two wings. And laftly, great quantities are taken here of the fish which the Dutch call puytael, from the head of a toad; but as to people who are fond of these kinds of fish, together with river lampreys, I envy not their tafte. I could enumerate many other species of fish, but shall only mention the crab fish, lobsters, oysters, and large fhrimps, which, besides every other kind of shell fifty are excellent in this country. Allow me to add the amphibious tortoifes, with their delicious fubstance, if we may credit those who affirm to have eat of them: but it is probable that fuch dainties would scarcely have been relished without a very fharp appetite. I shall rank the tortoiles among those medicines, or rather medicinal aliments, which are proper for pthisical persons, and fuch as labour under any empyema; as by their glutinous quality they tend to confolidate the mentioned, and the haufearing fat lungs. diw they abound. There is, befides, a fish, covered with very hard feeles, which the Malaians call fean cabolch. From the figure of the head, and other parts of its body. I take it to be a rivermullet :- it lives in a filmy bottom, and favours

inciney emissions affectly become security was inquivided. The climber of the soft where,

DIALOGUE III.

spect when baked, a cought alway of an instanced

Of Rice and Bread in the Indies. Of Drink, Wine, and Arrac. Of Drink made of Water, Sugar and Tamarinds. Of natural Liquors drawn from Trees.

Durgeus.

A S prepared rice is much used in these places instead of bread, I beg to know your opinion of that production, especially as it is a solid kind of food, and ought, as a basis, to support the other aliments, and prevent their sluctuating in the stomach.

Bontius.

I shways take a pleasure in informing you of the firments. If, as usual, a sufficient quantity of wheat was imported to us from Japan and Sure, I would very readily dispense with rice; because the bread made here of wheat flour is nothing inferior to that in our own country, and

in my opinion, affords better nourishment than rice. But if there should be a scarcity of wheat, then that rice is to be chosen which is the whitest, of a clear colour, and weighs heavy: and when baked, it ought always to be let cool before it is used. For experience evinces, that hot rice is not only hurtful to the ftomach, but also to the brain and whole nervous fyftem: and from the gross and dry vapours rifing to the head from this aliment, the optic nerves are frequently so much obstructed as to induce a total blindness; of which disorder I have treated in my method of curing the difeases in India. Hence you will feldom or never fee the Javans or Maldivians eat hot rice : because the Indians, of all people, are the most careful of preferving their health, and observe a regular and temperate course of diet.

rison, many of us fell into the dy entry by Duræus.

But hark! friend: you present me with too dry a repast-Nos miferi aremus, nec quod petere babenus. "We are fit to choke of thirth and " have nothing to drink." Pray, give us forme thing to drink. to was them have an abserved mediag isfunge to the Me and each country, and

1 48P]

Bonties.

other liquor, let us take a draught out of the morning was being; much seemed of the come draw, with peaking; much as we also the liquor, let us take a draught out of the micro; and first, we lightly which is a first would be one of the hear, it would soon be one four. Otherwise with which are no one four.

wife we might have respected ale as in our own didner, review that the bottom with sixted words and the country would be the country with sixted with sixted the country would be the country with sixted the country would be the country with sixted the country would be the country with sixted the country would be seen to be seen t

may be made even from the distribution of the land of

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four ounces of randbanier three citron apples,

Butsmay we had drink had a draught out of the charge out of the

neer, and first, weening appeals of pure and firm annAkhough we don't drink ale, it is not that it cannot be brewed here, but because on account of the heat, it would foon become four. Otherwife we might have as good ale as in our own country? for as I observed before, we are plentifully supplied with wheat from Surat, and malt may be made even from rice. Of that I have feen an inftance at Mareichall's an eminent merchant in this city, who made ale of that grain, noways inferior to the Dutch in point either of strength or taste. However, by the heat of the air it foon became four: and certainly that liquor is not wholesome in this country; though what is prepared in the following manought, indeed, to add drinking falt water,

Take a veriel well girded with iron hoops, containing eight gallons or more, according to the number of the family: fill it with river water, into which put two pounds of Javan black sugar,

four ounces of tamarinds, three citron apples, icur. Les the whole be placed in a cool figuatione well covered, and ferment for twenty-four hours What is furprizing it boils without any fire under its in such a manner that people at a distance may hear the sound: just as ale in our country is boiled with a strong fire. It then throws a scum to the top, which is taken off by removing the cover. This is our daily drink: it is very agreeable to the palate, and how near fo heavy as the former. And for the fake of a jest, I have made a great many people, who nothing you at his digest and religion many people, who had newly come here from Holland, depart in the belief that I had entertained them with English or March ale, the taste of which it will resemble still more if you throw into the vessel But is it not contrary to respond to luthered s

and spirituous wines in so hot a climate?

shem shirb out to noining row at tach tue.

Sonwhise pwtplans rousem to strange sting or of people pwoysen will rounem anusly out out by morning is fo great here, especially from ten in the salvi room to three in the afternoon, that people sweat great deal wheater the arrate heat of the

four ounces of camerinded three citron apples, four bestonic belief the single of the stands of the single of the stands of the

throws a foun to suspend which is taken of Roy 1967, which of the wines, here do work the spanish of the spanis

the belief that had entertained them will enter the fake of a self-than the self-than the self-than the self-than the self-than the self-than the self-than that the belief that had entertained them with the belief that had entertained them with the belief that had entertained them with the belief that the belief that the self-than the s

But is it not contrary to reason, to give strong and spirituous wines in so hot a climate?

Boutius, nov at the drink made of it, which Petplain to you the expediency of it, perhaps you will be of my opinion. Differ heat is so great here, especially from ten in the fall noon to three in the afternoon, that people sweat a great deal; whence the innate heat of the

body is weakened, and the organs ferring for the digettion of the food wind rehisle beggine more cold, different from what happens in northern countries, where, according to the maxim of Hippocrates, the bowels are warmer in the winter, the cold of the air augmenting the inward heat of the body. This opinion is farther confirmed by the experience of merchants who travel through the defarts of Arabia into Persia or Turkey, who, during the greateft heats, flake their thirst most easily with a draught of brandy, or the throngest Persian or Spanish wine. For, if they should constantly drink water to their thirst, they would without question fall into a cachexy and remarkable tumour of the belly, and in the end into a drops fy itself. Add to this, that all the French wines brought here from Holland are impregnated with the fume they call lucht, which as it confifts of an arienical fulphur, and colophony, gives the wine a pernicious and caultic quality, though it makes it retain its flavour a longer time. Whence I have feen forme people here last For that vile ingredience slow judget ourning the

Fogurhat vide ingradient sim inchest burning fine that the bare touch of it raises vehicles on the

into a morest dylencery, from only taking, a hearty the digertion of the foeshirt done le regions in normalise de le cold, different trom what happens in normalise de le cold, different trom

live to thort a tintustite and to the maxim

From what you have thid, I find that you are no chemye to adult wine how the Chinese inward heat of the body. This opinion sidT fariher confirmed by the experience of mer-

chants who travel the bugh the delarts of the the transfer in the travel the street of the transfer in the tra suitned the defarts of Ara I condemn the abuse. If therefore, a person, for the fake of strengthening his stomach, should take two or three ounces of that liquor morning panish wine. For it they should constantly grow ob ton bib ad yel bluow I gnineye to their their they would without but if French brandy can be had for that purpole, there is certainly no occasion for arrac.

Pole there is certainly no occasion for arrac.

And if there is a scarcity of the former, that spirit is to be preferred which is made of the liquor contained in the Indian nut, and of the tree itself, distilled with rice. But that which is prepared by the Chinese, the most avaritious and crafty wretches on the face of the earth, of that excrementitious marine production which the Dutch call quallem, is to avoided as death itself. For that vile ingredient is of fuch a burning heat, that the bare touch of it raifes veficles on the

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Ikin, and hence ulcerations of the lungs, spitting of blood, confumptions and death enfue: and this is the reason why, as Plautus says, men live fo thort a trime? Because they tear and abrade their bowels, as with a heekle or a harrow.

Of natural Drinks caken from Trees, colled in India Toruvat and Saguer, and of the Liquor contained in the Indian nut. Bonnius.

I approve of the mederate all of theme, but t condemn the abul Durarus erchere, a person, for

I N our convertation bitherto, you have given me the highest facisfaction stand I should now be glad to know your opinion of those siquors which are taken, either from titled or trees. pur-

pofe, there is certainly no occasion pofe, there icomes, that You are to know, then, that there are three kinds of fuch liquor. The first is contained in the cavity of the Indian nur; the fecond is taken from the flowers of the fame tree; and the third, which is very common in Banda and the other Molacca illands, diffils from a tree not unlike the Indian palm. This liquor is by the natives called faguer, These three are very frequent over all India. It may be affirmed of the whole, in general, that they are endowed with

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flun, and hence ulcerations of the lungs, spitting of blood, confindprions and death, enfue mand this is the realon why, as Plantus lays, then the do not all a U.S O. L.A. I Hey war and Brade their powers, as with a heckle or a harrow. ringly taken : for it appear, that, by

Of natural Drinks taken from Trees, called in India Toruvat and Saguer, and of the Liquor contained in the Indian nut. the name of the barbiers.

Panda, and the other Molece illands, especially

Hence it is, that in

N our conversation hitherto, you have given me the highest fatisfaction; and I should now be glad to know your opinion of those liquors which are taken either from fruits or trees. Portuguele, who are far more temperate, nor

only in this kind ofsuitnod but in every other

You are to know, then, that there are three kinds of fuch liquor. The first is contained in the cavity of the Indian nut; the fecond is taken from the flowers of the fame tree; and the third, which is very common in Banda and the other Molucca islands, diftils from a tree not unlike the Indian palm. This liquor is by the natives called faguer. These three are very frequent over all India. It may be affirmed of the whole, in general, that they are endowed with

a cooling quality, and hence are injurious to the nerves if too copiously drank, especially when the body has been heated by exercise or the fun. These drinks, therefore, ought to be sparingly taken : for it appears, that, by the frequent use of them, and particularly of that called so guer, not only obstinate diarrhass have been induced, but also the species of palfy known by the name of the barbiers. Hence it is, that in Banda, and the other Molucca islands, especially those regaled me with a very plenting the chectic, and of a pale vellowing colors; and chectic, and of a pale vellowing in idea out it is limple, and not realoned caree one of our Batavians cleapes the forement of the now forces. tioned palfy, which is also experienced by the Portuguese, who are far more temperate, not only in this kind of drink but in every other How nice you are I Don't you knotolih to req ture is contented with simplestood ? However in that I may not feem to pals over theid thingen through negligence. I thalt not know you unfatisfied; and I thall theak of ammiatics not what I have fearned by hearlay, butwhat I am certain is true from my own experience, is The qualities of pepper are to well known over the world, that, it is needless to lay much or heeming I we confider the mannet in which copper grows, were review of the contents of the frequency of the contents of the

Banda, and the order Moincea ulands especially suspend.

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choic subject to at most of the people are new content of the people are not content of the people and the people and the people and the people are suspended in the case one of our batavians escapes the fore-mentioned past of the people are supported by the foned past of the people are also experienced by the foned past of the people are the people are

only in this kind of curredout in every other

How nice you are! Don't you know that may ture is contented with simple food? However, that I may not seem to pass over these things through negligence, I shall not leave you unsatisfied; and I shall speak of aromatics not what I have learned by hearsay, but what I am certain is true from my own experience. The qualities of pepper are so well known over the world, that it is needless to say much of them. If we consider the manner in which pepper grows, we

To sulliviored to estage have of fwente nine vine grub: for it climbs up trees and poles exactly as that plant. The clusters of it are pickled with brine and vinegar, to excite an appe-gention base seed to use with roaft or tite, and are served to table here with roaft or boiled meat. In the fames manner the inhabitants pickle the recent roots of ginger, galangal, the fruit of the mangos, carambola, billingbing. turmeric, with young cucumbers melons and pumpions, which ferve here inflead of capers and olives, though at the fame time we are in no want of these delicacies, as we can be manually Supplied with them from Persia and Surst. What Garcias ab Orta relates of the opinion of the Javans and Indians, concerning a cold quality on pepper dis ridiculous a Such a doctring can be founded only on the fame principle with that got the ancient forhills, who were so bold as main tain that fire was cold, and ice and inow hot. To the writers above referred to I would reply with Anitotles that experience was the only argument to be used against their affirmations But perio haps they meant, that by too liberal a use of weakened internally, and fo the temperament of the body rendered cold. But I believe the Indians

reason not so deeply. They have the same apinion vine grub for it climbs up reces and poles ex actly as that plant. The chafters of it are pickled with brine and vinegar to excite an apper site, and are ferved to table here with roaft or boiled ineat. In the seitmogmanner the inhabi-It is my opinion that they ought to be sparing! ly used in these places: for they load the Homach with their oilines , and by the vapours which they send to the head induce drowsness and fleepu Nay, WI have feen forme whose lives were note an inche endangered by too free a die of him megy and have lain for two whole days, mute and introverible, like those in a carus; a manifest proof that the brain and herves were greatly af feeted Priche illand of Banda, they also make a paper of the green bank of the nutmeg tree, which they preferve with fugar, and then it exact! ly releiables in talle the four apples, which are preterved in the dame manner in our country. And we too here in Java make a very palatable pickle, of much the fame fort, of the bark of the nutmeg falted, and previously macerated in water. pepper the native heat was thrown out and a territory old at the temperament of weakened internally, and so the temperament of

the body rendered cold. But I believe the Indians

hear ignorant of the uses of that planoins this been ignorant of the uses of that planoins this all India, scarce cuber his or flesh is dressed without a bit of calaster all maticus, or the sweet of every the standard of t

and immovemble, like sustand a carus; a manifeld

The calamus aromaticus, which is here in for great attindance, pray is it not indealised in the kitchens? ... the kitchens?

by receibbles in talle Rennied spile, which are

de Anibré Digitodo Cylisoralad Vravellani hatorot to car de anibre , and canto but eaglest which has a failled in the failled in the fail of the fail had seen and see the fail and see the fail and it is a seen to be seen and the fail and control of the cannot be taken into the been ignorant of the uses of that plans in over all India, scarce either fish or flesh is dressed without a bit of calamina aromaticus, or the sweet smelling with along with them, both to improve their flavour, and strengthen the stomach. The nard, which grows here in the mountains, I hold in the same esteem. Insuled for some days in vinegar, as the dry slowers of marygold with us, it admirably results the purefaction of the humbers. I have never yet seen green hard, because the mountains here are shacessible, I am as count of the number of tygers, and Javan roll bers.

the gesitet degree. Duraus.

Bontius

de And 160 it gis of Garnias ab Orta calls that spot crocus Indians. Indian faffion, not that its files mants have any relemblance to the British faffron, but because it dies a vellow colour of Garnias who never faw these roots growing, gives it gas his opinion, that they cannot be taken into the

being picture desired from me to the contrary.

Light have feen the plant a threshold simulation of excellent use in medicine. What I have said may be sufficient on the subject of aromatics.

and and to noise. Duræus. ding, with one a

Often have I wondered to see the Malaians and Javans, and the Chinese too, eat so greedily of the fruit of the mandrake (which the Portuguese call Pomo d'oro) as they are cold in the greatest degree.

Bontius.

Softly. Don't you know that they mix with them the fruit of the ricinus Americanus, or America feeds, which the Malaians call lada Chili, which is to fay, the pepper of Chili? Thus they correct the extreme coldness of the one by the excessive heat of the other; and with the addition of a little vinegar and oil, eat them both to fish and slesh, to which they give an agreeable enough relish. There are some peo-

ple who there the vicinus, as tobacco, our design of the my own part, I should not chule to join them. For, once when I tried it out of curiomy, I exceptioned my whole palate and tongue by its craftle pungency. I dence we may fee the force of habitest, who it is strong as

men in the collection of the state of the

As corrected to the manual and the second

Portugues and compared one are coldens

therereas inches. Let us therefore borth with

which being send grant variety.

America the section of the property of Chile with Structure of Chile which the property of Chile which the property of Chile which the control of the course of Chile with the other section of the course of the co

has To much the tafte of our apples, of goofe bernes, that scarce a person could diffinguish any difference. The Ruft, Infly prepared, is very beneficial in strengthening the stomach and bowels: when fully tipe, it is not so wholsome, but if eaten in modeliation, can do no hur.

Duraeus

What is your opinion of the Durios, Jaaca,

A Shour entertainment feems now to draw to a close, I hope you don't intend to let us go without a desert.

Bontius.

The Durios, as taution a garifu finell, are their means. Let us therefore begin with the miged property the best which have an affirment taste are the best which have an affirment taste and the worst are stuck as are sweet to the palatectus But, let us daste and little idiscourse of each of them. The first that presents itself is the later of the manges which grows upon a wory high, and spreading tree, like inversely taste. This fruit, when unripe, is of an extreme acid taste. After the bark and shell are removed, a pap is here made of the inner substance, which

has fo much the tafte of our apples, or goofeberries, that scarce a person could distinguish any difference. The fruit, thus prepared, is very beneficial in strengthening the stomach and bowels: when fully ripe, it is not fo wholfome. but if eaten in moderation, can do no hurt.

If its other qualities Duraus, with the

What is your opinion of the Durios, Jaaca, and the other fruits that are covered with pricka close I hope you don't intend to les al

go without a defert.

Bontius. The Durios, as they have a garlic fmell, are apt to be difagreeable at first talting : however, they deferee to be reckoned among the most wholefome fruits in India: for they are diuretic, promote perspiration, and discuss flatulences thoughthif dakens in theo great quantity; they in flame and bloody tandil produce pultules das the faceu Wegmayinplace shem among the alinhersi talso medicines, or which I have treated in my This fruit, when unripe, is of anusxlocubodism tafte. After the bark and shell are removed, a pap is here made of the Liner substance, which

produces cradities in the flomach and bowels,

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which beget obstinate and troublesome diarrhæas, and afterwards a teneimus that is often concludnov ob Anar tark in itud : uov diw sorga I
cd with a mortal dylentery.
cd with a mortal dylentery.
cd with a mortal dylentery. cious fruit?

Duracus. is not to whellome,

Pray what fruits were they which you com-

mended a little ago los ineir aftringent tafte?

Mended a little ago los ineir aftringent tafte?

Mended a little ago reinigent tafte? epithets you have bestowed upon it, I would boldly affirm that there was not a nobler fruit in the universe; but it is of 18 caustic a nature that the juice of it erodes freel and iron his hence of not she with the sold for some in wine or water, it excoriates the palate and tongue, and causes a horrible cholera, and frequently a mortal dy-

There is also brought to us a fruit; Veine lances, which grows in chafters as the grapes, of a round shape, and about the size of a plum.

of a round shape, and about the size of a plum.

It bears a kernel, which is covered with a white month of the size of the si substance of a vinous taste, resembling the uva urfina in our country. Like to that, in tafte, is So far from that, I think they are extreme-for fiving hair because the bark surrounding the fruit is covered with some small threads, and discharged by the intestine, small threads, and discharged by the intestine, small the landard in the kernel perfectly resembles that of the landard in the kernel perfectly resembles it is inconcorded in the kernel proposed in the landard in

produces crudities in the fromach and bowels,

which beget oblinate and troublesome diarrhæas,

Duræus

Duræus

Lagree with you: but in what rank do you

Lagree with you: but in what rank do you

Lagree with you that most fragrant and deli
place the ananas, that most fragrant and deli-

cious fruit? Duræus.

father supported with the support of support of the support of the

There is also brought to us a fruit, vested lances, which grows in clusters as the grapes, of a round speed, and about the size of a plum. As to the sace I magnet their sweet take their sweet take the sace I magnet their sweet take the sace I which is covered with a white will be sufficient to recommend them. The same the same the same to same the same

barking the lances, however, emits a conilky juice, which is very bitter and corrective. There is likewise here the fruit called by the natives billinbing; of the shape of a young cucumber, and so extremely acid to the taste, that it may be said to be sowerness itself. It is remarkable, that if as person's teeth should be set on edge by eating any other acid fruit, immediately on tasting the billinbing, the sharpness is no more self; for the same reason, I suppose, that in other cases the sense of a small degree of pain is extinguished by the severity of a greater.

Duracus, and on that account

But where are the ward of any jambos, and Bengal quiega naibal ruo to uo vat tat. Celled

lances, which grow Robbiog fers as the grapes,

Profes Alpinus calls that fruit mula, the Malatans banatia; and the Javans epilangon It is of an agreeable talte, resembling much take a pear, which, on account of its sweetness, the Durch call strike perent. If this fruit is catenorude, it respectly flatulent and manifeating, so as some chief to make people, unacombonied to it, two which it the best way of taking in a lat with bread and boiled vice, adding a little cheefe, without which it is approtoproduce the dyfentry and cholera. Just as in France and Spain, apperion who care a quantity of grapes without ally bread, it is certain of fallings into analytenterio frait, is to drefe them in a frying pant with eggs, by which they become beneficial in confingation, afthmus, and other diforders of the lungs, it Externally applied to inflammatory to mours, they promote suppuration, and sold applied to inflammatory to mours, they promote suppuration, and sold and

not plan in the Duræus. Of the control of

But where are the mangoltan, jambos, and Bengal quinces maint, mo to no set us W 1

relevantes, repeting of the after at the revenient no

is of the fire fourth and excepting that is of the flat of the plumtren, and excepting that is of the flat of the plumtren, and excepting that is of the fire of the plumtren, and excepting that is allowed are formathing thaper in the point; would entirely refemble it, all the ears a red flower, and much to purple. The tafte is aftringent, and much

like that of the tendrils of the vine; its relish not fully corresponding with the beauty of its aplimit significant to the property of the call the produced either by exercife or fever. Garcias ab Orta describes the Bengal spine cerdenally gurid and shall otherefored only addaithat the knowlever taken out of them, and preferred wholes either with sugar, or bring and winessed a Weare Supplied with them ow of the Partigues of ips which trade from Swat and the Commandel coast to Malaccami For ponting snidemaned besons dayentoleare blooms and formaline proferyea, as the Portuguese Bosforthat it is a founmonumovskih over Iralysishatishe Indiana frend their manes den perfuyes and the Rormande an president assertion of the called and the complete and the case of the called and the called much that of our large surumnal Rear commonly salled when popen. AThe fruit mangeltan has fo density and index somether sense of except allumbe smiss in the variation of the bank of his of estactionalities that of the property and the unless the pailar eyound eather area ready, states sade Aberin diday nivalled of Ablks in which are de known in Endidor elevande her he establishing with a mility fulfill party and a fixed wingus danks. excelling the ftrawberry and ananas.

like that of the tendrils of the vine; its relift not fully conscipending with the beauty of its aplining slaund on tognot ton syah uoy sqod I

pearance It is of a cold nature and therefore
pearance It is of a cold nature and therefore
uleful to noiniqo ruoy at tadW. set llas yent
uleful to allay the heat produced either by exereise or sever. Garcianahourta describes the Benof specestof the tea farm relemble stage log the common dame; and have front adeched in the Edges. ind The Chine which incided of lating them big Edithowa Handfill of the leaves and a keeper of boning Water, whiches dei femalis upon use and the a share of noticed birtaccismif Maismit a Bride mafte, and is fipped warming the Chinese regard teatastal facted drink? With he they well bone arangels, dand with the they take teave of their greats principals drey which whey there is the mice the tawing this planties without giving to THEY ERECHE IN THE TRANSPICTOR OF THE MET Hominetal Sado" Herricaveah. "Te is why deling क्रियात्रभें कार्य मामका एक प्रमाणकार प्रमाणकार के प्रमा to the Brains But it is of advantage with attribe are children tesans of the little and the control of the control o she cutte tilled alles but of the but white There in gielat missilidance, asmittle diane arques RHOWN in Europe's Of all their we male nimes, Which suffice of the water, affold pickent dind excelling the ftrawberry and ananas,

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refreshing drink, both to the healthy and the sick. I say nothing of vines, which, if carefully dressed, yield ripe fruit four times in the year. Wherefore, if we have not daily heat, we have, however, perpetual spring and verdure, and the real gardens of the Hesperides.

odges. The Chinese arrays) of valog them by

H Aving now finished our imaginary entertainment, as we are returning home, let us at least gather a few pot-herbs for supper,

regard to as a fact Bontius, with a clear wel-

Tell me what you chuse to have first.

failed one laws of Dorens, with the wall one being he

I should be glad to know something of what the people here call batatas (potatoes).

to the trains but it Bontius. The training

They are full of nourithment, but abound with a melancholic juice; not onlike that of the chefnuts in Europe, the rafte of which, these roots, either when roafted under the alhes, or boiled with stell, very much resemble; only they

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estrefuling cleaning, both to the healthy and the ark fortrlay horling off vines, which, if carefully dietyed, wield Vige Time Pour Lines of the year, Wherefore, if we have not daily heat, we have,

Of Pot-berbs, Pulse, and some esculent roots in India.

Duræus.

LI Aving now finished our imaginary entertainment, as we are returning home, let us at least gather a few pot-herbs for supper.

in part long and capering, like our radiflica in.

Tell me what you chuse to have first.

Duræus.

I should be glad to know something of what the people here call batatas (potatoes).

Bontius.

They are full of nourishment, but abound with a melancholic juice, not unlike that of the chesnuts in Europe, the taste of which, these roots, either when roasted under the ashes, or boiled with sless, very much resemble; only they

are sprinkled with salt, oil, pepper, and wineger, they serve instead of red beet in our sallads.

Cunclis Animalibus abstinuit qui,
Tanquam homini ac yenterin dellit non omne legumen.

So these people still able in from red beans and whatever among the herbs is of a red colour. Hence it happens that recorde, who in other things to of their you know way have two kinds? the have a desident for the thorn and the stand at the der, and is used applace of chinese francischer the dentiber would be amazed to find that their Holland, and is ni caten Struct blesseria de Holland Malaian all the fallent he by the handle bread of the handle are much better than in our country; being neil that of our libit as possible. I shall just enumer as narrow limits as possible. I shall just enumer against rate the other herbs made use of in-diet in this country. Here, then have we both kinds of bredrall-soq to ensibin and by and evin ereat abundance. All kinds of lettuce, anife, tennel, and we have lately begunathhod uvace afparagus with -musicy hold all herbs whatever in great efteent? For elital approprie who beame share sead Swat and the coast of Coromandel, live amount

decremente federsoded, exclusses finoquivisiting are sprinkled with salt, oil, pepper, and garrent they serve instead of red beet in our sallads.

Cunctis Animalibus abstinuit qui,

Tanquam homini ac ventri indulit non omne legumen.

We have a great many garden radifies here seed ber mort nighten littl slope shot of what think you of the littl slope shot oo. and whatever among the herbs is of a red colour. Hence it happens that people, who in other things are very dull, have yet a perfect knowledge of herbs and plants; fo that if the learned Pauwius the greatest botanist of our age sould rife from the dead he would be amazed to find that these Barbarians could instruct him in the science. The Malaians call all esculent herbs by the name of feir, and all medicinal herbs, and poisons, by that of oubat. To confine our subject within as narrow limits as possible, I shall just enume, rate the other herbs made use of in diet in this country. Here, then have we both kinds of -nude tears in yelling and partley in great abun-All kinds of lettuce, anife, fennel, and we have lately begun to cultivate asparagus with fucests ta Water melons, also pumpions, cucumbersa citalis and all forts of creeping fruits, are produced here; but as they abound in our own

country, I shall only fay of them, that their feeds are used for the same medicinal purposes as they were by the ancient Dutch. Nourithing and favoury, though flatulent, leguminous roots are found here both in bushes and large trees. We have also a fruit which the Malaians call facqui, of about a foot and half long, round, and in thickness equalling a man's arm. It is dreffed with wine, pepper, and vinegar, as the artichoke, and is not inferior in talte. You may fee the figure and description of it among my exolic plants, which I shall endeavour to let you have next year. What I have faid may suffice of potherbs ; let us now turn our thoughts, to exercise and the passions of the mind, that we may at length bring our conference to a conclusion. moult temperament of the air; and it should be taken in the mornings and evenings, when the heat of the lun is not intense. At these timesproper walking is beneficial, as also riding on horfeback, or failing in a barge upon the rivers; through flowery meads, and woods of perpetual, verdure. Water nations, alies pumpides, cucum-

bers, curuls, and ell forts of company frains, are

country, I shall only say of them, that their seeds are used for the same medicinal purposes as they were by the new your hours and savoury, though statutent, seguminous roots are sound here both in bushes and large trees. We

of Exercise, skep and Watching, Blood letting, Purof about hind and the Passion of the Mind, and in thickness equalling a man's arm. It is dressed

with wine, pepper, and the man the articloke

The right of the factor of the right Trayer Control of the plants, which I half endeavour to let you have next year. What I half endeavour to let you have next year.

To be floore—exercise ought, without all doubt, to be moderate in this country, as the conflict-tions of the people are relaxed by the warm and moist temperament of the air: and it should be taken in the mornings and evenings, when the heat of the sun is not intense. At these times proper walking is beneficial, as also riding on horseback, or failing in a barge upon the rivers, through flowery meads, and woods of perpetual verdure.

cocion of the aliments, but rather affile it.

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Durans
What dain's youturand received and evice

Pray tell me your opinion of fleep, and the proper time of indulging it.

Bontius.

I have nothing farther to fay of fleep, than that it ought to be moderate. But I am afraid of appearing partial should I affirm, that a sleep in the middle of the day is beneficial to the inhabitants of this country. However, I remain in the opinion, that a meridian nap is not only useful here, but almost absolutely necessary. And as the air is so hot at that time of the day, that a person will be fatigued, and sweat, with the least motion, what should hinder him from passing an hour or two in reading some agreeable book, or indulging a gentle flumber? It is certain that the Spaniards, Italians, and French use that practice, though their countries are nothing nigh fo hot as ours. cale is otherwife in the northern regions, where people eat a more hearty dinner, and digestion is promoted by gentle motion : but here, as we must dine more sparingly, sleep hinders not the concoction of the aliments, but rather affifts it.

the distant described the design of to

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be look and a diarrisus rul yfentery apprehend

What think you of the retention and evacu-

to dry od or changing interior and popular property

difeases, we shall poleuisnoghem till a more con-

It is not to be expected that I should speak of fuch purging and blood-letting as are used in the cure of diseases; but only of such as are instituted for the prefervation of the health. Therefore, if the belly is bound, it may very conveniently be opened by excellent laxatives, with which the country supplies us; such as tamarinds, and the pulp of cassia. Of, if a stronger medicine be required, you may add to thele the extract or fyrup of thubarb. With regard to blood-letting, the expediency of that operation is to be determined upon the same principle here as in our own country; namely, by the absolute or relative felness of the vessels, or the plethora ad vala, and ad vires. If the former exilts, blood fometimes to be drawn plentifully upon the au-If the latter is the caute thority of Hippocrates. of any complaint, venæfection ought to be po formed once or swice, that the diffended organs may be relieved from oppression, and the balance of the circulation restored. If the belly should

ed, fourt fyrup off the juice befopointegranates, and and coccion loss its barkenney be rakened. But as these injunctions related properly anneholouse of diseases, we shall postpone them till a more convenient opportunity. Susand

You advice well: for I am fentible that the belly has no ears: analysmuQu please, we shall will for the first and or enterment say gnistemed.

Louis and the shall or enterment say gnistemed.

Bontius, laxatives, with which

With all my heart, suitnod

Much have physicians written on these and the method of moderating them: but as the emotions of the mind are scarcely within our controul, I shall only say of them, with Horace,

qui nin fervit

Imperat ; hunc frænis, hunc tu compelce estenis.

Who but will acknowledge that what is easy for one, may be difficult to a person of another temperament? Wherefore, to lay down any precise rules concerning the passions of the mind, would savour more of a trifler than philosopher. Besides, we ought now to think of breakfast, lest we fall into the predicament of Plautinus, and

bashould gainisether likes gailtyability yrappechelidwidgened fydupbilishai joidebluoobizaylahusoes, zaoil zarbiad tidashkand lombmodysege, archard tent ta. I thefe injunctions utdat yldaralothi samobadeysb oht difeafes, we shall postpone them till, a more con

venient opportunity. .zusruC

You advise well: for I am sensible that the belly has no ears: something yet remains to be believed and the safem sions of the mind.

Bontius.

With all my heart. Suitnos

Much have physicians written on these and the method of moderating them: but as the emotions of the mind are scarcely within our controul, I shall only say of them, with Horace,

Imperat; hunc frænis, hunc tu compesce catenis.

Who but will acknowledge that what is easy for one, may be difficult to a person of another temperament? Wherefore, to lay down any precise rules concerning the passions of the mind, would savour more of a trifler than philosopher. Besides, we ought now to think of breakfast, lest we fall into the predicament of Plautinus, and

while we are discoursing of restraining the passions, ourselves should be incensed by hunger.

Let us, therefore, get home to breakfast, before the day becomes intolerably hot.

Durzeus.

dieses, we that potpose them till a more

You advise well: for I am sensible that the belly has no ears: and, if you please, we shall make for the town DVERSIONS

Bontius.

With all my beart.

Mach have pleyword & come on thest and the

mistlevil of anylors log them; but in the casetions of the mind are the cely within our controll,

GARCIAS AS ORTA.

Lapone : Law Marin, that is the part of

Who has talk acknowledge that what is early for one, that he dishout to a period of another transportant. Whenefer, we lay down my product many contracting the out-was on the mood, would be

terms being of a color than philosopher. He lides, we cause now my dailed of becaused, held

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MY MINT BEARTY BELLYEN

ON

GARCIAS AB ORTA.

If the timbe growing here it years but therein

to account a many people that of the windows

The complete that we do not have the common confidence from the complete and the complete a

o store a bontodo

OT

MY MOST DIARLY BELOVED EROTHER

AWILLY A WEBUSH PINS

Burgo-mafter of LEVDEN.

A S soon as E prejected in the statistics, I appoint the beids myself not only to attain a knowledge of the beids growing here in Java, but likewise to acquire a more perfect idea of the aromatics in which our part of the country is the most fruitful. Towards this end, I hoped for great assistance from the writers who had treated of the subject; particularly Garcias ab Orta, some time ago Physician to the Vice Roy of Goa, and Christopher a Costa. I began, therefore, to read them more carefully: and soon found that they had related many things

notion, Indicative to be failed. It must be desirable by the state of the state of

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about the mere of the contract of the that there is

MY MOST DEARLY BELOVED BROTHER

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WILLIAM BONTIUS

could entitle to just on to the telliness of tamper.
Thus, with relate their facts from anniquity engagement.

Burgo-master of LEYDEN.

things to selve for facilities to reactify, thought possessed to a service to the selection of the facilities of the fac

As foon as I arrived in the East Indies, I applied myself not only to attain a knowledge of the berbs growing here in Java, but likewise to acquire a more perfect idea of the aromatics in which our part of the country is the most fruitful. Towards this end, I hoped for great assistance from the writers who had treated of the subject; particularly Garcias ab Orta, some time ago Physician to the Vice Roy of Goa, and Christopher a Costa. I began, therefore, to read them more carefully: and soon found that they had related many things

upon the authority of others, boobich, by boular edamination, Istificonered to be falfe. od In must be acknown leged, bardever, that both thefe men, specially Garcias ab Orta, bave described things with fidelity, as falman their dan experience could lead shem 2000 Travrice not these animadversions, therefore, with the view of repredending those authors, and invidiously detracting from the merit of men more knowing than noffelf. My defign is only to flow, that the evidence of me ocular cottness is superior to the testimony of traperfores, who relate their facts from unriqular information emaupte, deiner supiverique iner fei delder ihn nuncia veri. Niebolas Monardes bus written of many things with fufficient weekeney, bough formisimes be is "guilty of neglects." The diligent Charles Chaffus has also greath improved baranical knowledge: bany with regard best spoken, bis clasen is ofen afeless. as will afterwards appeared For these reasons and that That the Jerm to live to myelf along I path purdicity and baser of the constitute pack observations. as I build made wisbyng eyes and approximation daily practice in these parts: though I am conscious, that in fo doing, I hall facility the reputation of the writer to the benevolence and utility of the defign Such as they are, then, I deservedly offer them to you; my dearest brother, both as I know that you have always been a diligent reader of those authors, and I acknowledge you as the maker of my fortune. Form you, among others, was my counfeller, that leaving my native country, where the profits of physic were small on account of the multitude of medicasters, I should make for the fertile plains of Jano, where, to fpeak ingenuously, virtue is beld in some greater esteem. Accept, therefore, these animadversions, as a sinceres though small token of my brotherly affection for your and next year, if I am in life, you may expell a full description of plants, hrubs and trees, with an accurate delineation of each. Which existing unknown in our country, la curious inquirer into nature will perhaps, not a little esteem. To conclude, if these animadversions Shall be judged worthy of being committed to the press, together with my other tracts, namely, my method of cure, and Indian diet (to be diligently observed in this country), and subich I have subjoined, let them see the light; but if they appear not to be sufficiently polished, keep them at home with yourself, as a token of my sincere affection I 20 daily prastice in these parts: though I am conscious, that in fo de rest Brother Alone wo Ktation of the writer to the benevolence and utility of the defigu. RUTTION RESTRECT LEGER VERY Offer them to you. my dearest brother, both as I know that you have at

ANIMADVERSIONS

interestings you are the charge of my fortune, alone

GARCIAS ABOORTA.

Twellow cor aut of the halisande of medicalers I found

On the FIRST BOOK of GARCIAS AS ORTA.

ACON CHAPTER III.

Of Altibr, or ajafatida, called Hin by the Javans and Malaians.

THE two preceding chapters have so amply treated of amber and aloes, that I have nothing to remark concerning them: but as in this chapter, the author not only denies that ever he had seen the berb, but relates nothing certain of its shape, I here present you with what particulars of as secidas I know.

Horse Billiamed, let thant len the light to

The plant, from the root of which the afa is fqueezed out, grows in great quantity in the Perfian empire, between the cities Lara and Gamaron, the former of which is not far from the fea, and is frequented by the Dutch and English merchants. This plant is of two kinds. The first is branchy, almost like the water-willow; from the leaves, and twigs of

ANIMADVERSIONS

by a press, which, when hardened by the lun, like other suices, becomes of the confiltence of

GARCIAS AB ORTA.

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On CHAPTER III.

Of Altibi, or asa fatida, called Hin' by the favons and Malaians.

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which, cut off, the afa foetida is fqueezed out by a press, which, when hardened by the sun, like other juices, becomes of the consistence of aloes.

Of Opium.

The other kind of asa is far more fruitful. and is the juice prefied out of the roots of the plant, which relemble very thick radihes; but the leaves relemble those of the spurge. I have in my cultody lome of their roots, which were ginot meleric or by contraction miffi is the name of brief a friend of merchant, a friend of merchant to Equat by the Indiana mine, who brought them from Perfiz; and altho' they were dry at the time I received them, yet they had so strong a smell, as diffused itself that and to be some through the whole house; and to people not these nations are filly in matters of trade. the Javans, Malaians, and other Indians, affirmed, that they had never imelled any thing more of this juice. I would certainly feem to depreci-bella ai sojuje sidt, eledt the Algnom A theragart de chymical medicines I finall therefore only ate chymical medicines I finall therefore only and as tas man prilate and tas that without the affiltance of opium and it, muiqo diw radispot, tadt of: estalar rodium and opiates, we never could, in these hot countries, opiates, we never could, in these hot countries, opiates, we never could, in these hot countries cure either the dylentery, cholera, ardent tevers, or other billous diseases. And with regard to or other billous diseases, in our own country of the celebrated medicines in our own country theretae, mithridate, and philonium, from what theretae, mithridate, and philonium, from what caboog. water-willow; from the leaves, and twigs of

which, cut off, the ala foetida is squeezed out by a press, which, when hardened by the sun, like other thick, account the consideration of the consideration of aloes.

diene, and the naming of Opinion and to attempt to

N the fecond paragraph of this chapter, the author makes mention of one will be alled measured by the chapter of the chapter o

the they had a the time I received them to the they had a thong a langle as difficed with the third paragraph he average that the they had to thong a langle as difficed with the whole house and to people and though the whole house and to people and the state of the way had been a scriftoned to it. Was learcely followed to it. Was learcely followed to the at of way, they must be and in the art of way, they must be the lavent of the lavent had any the lavent will always. Were I to expansion and the art of way that they had never included any thing most action the law in the law is the state of the world the the the the world the state of the law is the state of the law is the must be defined in drelling mear as the author relates. It hall therefore only any that without the alliance of opinion, and the most universal commodity in India. And the india company has always a great quantity of this juice in their flore-houses, which the is the celebrated medicants in the relates of or other boules, which the is the celebrated medicants in our own country, what morn on their flore-houses which the seconds.

ochablinglediency-prayered werespect the stimbul tageous effects athorgoproduce, shinksther opiums whichopings abition profulch? fill unbooking care be more amount of them, from the abuser of any meets disine, land that not well prepared, to attempt ito! diferedict the proper siles befrome of the noblet regi medies in the shops, often for no reason in the world or an allegation not confirmed by experience. The poorer fort of Indians entiatt, from the leaves and twigs of the poppy, a cheaper opium, which they lay in the fun to harden. This drug they call pouft; and those who make use of it, are, by way of reproach, termed by the rich poulti, meaning poor or beggarly. The poor again retort upon the rich, by calling them affionii, in ridicule of luxury and delicacies. For affion, or according to fome amphion, is, among the Arabs and Indians, the name for the opium of the Greeks: whence I am inclined to think that the word opium has been derived from that nation, which has used it from time immemorial. The Greeks, however, appear to have known only the bad effects of this medicine, and not to have fufficiently investigated its true use, and glorious qualities. Of opium and the crocus theriac, mithridate, and philonism, from what

Indicates on respecticy Limpherhere a methodouletic exmany torimhich, asula facreditancheit, blance reconge idno almost delicente coholer es en feitolw ries, phrenitis) udad fpains; which her extreme od lyofrequentains this country w Butsofs this I have b spoked more fully is my Indian method become lib medies in the Grops, often for no reason in the world, or an affection not confirmed by experience. The doorer jots of Indians extract, from the leaves and twigs of the poppy, a cheaper opium, which they lay in the fun to harden a This drug they call pour and those who make use of in are, by way of a cach, ceined by the rich poulti, meaning poor or beggarly. The poor again retort upon the rich, by calling them affionii, in ridicule of luxury and delicacies. For affion, or according to fome amphion, is, among the Arabs and Indians, the name for the opium of the Greeks: whence Lam inclined to think that the word opium has been derived from that nation, which has used it from time immemorial. The Greeks, however, appear to have known only the bad effects of this medicine; and not to have sufficiently investigated its true use, and glorious qualities. Of opium and the crocus en econod margeri parato izidela uniones

Indigues of themerical beauty of the nuclearly Countries for which, note in forced anchor, I have to the to the total anchor, dyfenter, dyfenter, - our ray out doing Gunin Betsoin earliering with Infragmenting this governor But of this I have IN the eighteenth paragraph the author lays, that the tree producing the benzoin is tall and large. But the benzoin tree here in Java, where the best benzoin is gathered, appeared to my eyes in quite a different light. Nay, it feems plant (or if you chuse to call it a tree) composed by the union of several suckers, like the finility afpera, or farfaparilla, only that in the

the thickness of the arm ; fo that in the middle the trunk often appears pretty thick, but below and above, the fuckers are evidently separated. To frequently happens, too, that other things of addition species from the benzoin tree are inchided in this coalition. Therefore, if any per-Tony hot acquainted with the tree, flouid observe the atterfity of leaves, he would he furprised. Bot Dellall afterwards flien, that the cafe is the fame in the trunk of the aloes tree, on calamba: sipen teuring the bark of which it have often produced bits of very fragrant benzoin liw radio

benzoin tree the fuckers equal or even exceed

[[drays]]

As in the 20th paragraph of this chapter the author fays that little of the gum is gathered, on account of the number of tygers, although it is foreign to my fathjedn I shall here add something of that animal. This ravenous wild beaft, then is, alas I too frequent in the woods of Ja which we find from imany deplorable inf of mangled human bodies. For both feet men and flaves; who go into the woods in or either to hunt or gather fuel, are immediately attacked by this monfter, which, after fucking out their blood, of which it is extremely goodly, at last devours the directes. Having faid that it attacks infidioufly of imust point out an error in Pliny, in other things a most fagacious inquirer into nature, who fays, showing e. 18 states the types us an animal of tremendous velocity; and relates I don't know how many fables of the hunting of its young. But in fact, it is a creature of a flow pace, and can fearcely overtake a man infrancing, much less a wild beath to Honge boars wild bulls, and stags, by finelling one this animal cafily clude its purfuit. If Therefore, it generally hounts the cataracts, of thouland awoodwon the fides of rivers powhithen when the other wild beafts come to drink, it leaps upon

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In May 1630, a typer was caught near the very walls of Batavia, in the presence of our worthy governour general James Speck, when it roared for some days and nights, to the great terror of the neighbourhood. What relates to the strength of this animal, I shall reserve for another place.

homing of its youngs of the case of this or case two of a flow pace, and can sea cale overrake a mith in conting, and it is a will beads. Misuce cours, wild builts, and frags, or finalling one calls after the course of the line.

is penerally harman the Non-arise on sheet and

woods on the dates of divers, whither when the

them obliquely, in the manner in which cats attack rate and mice. In the same way it attacks men, attily afort hopel of nould overleap its mark, through to great eagerness of seizing the prey, roaring all the while, it retreats THE author here! Theaks of the answine em beliebelated thur lacked Phave billy de lide, that there and have whige, build on to purple colour, and that they my about among moveles herbs, fhrubs, and trees; fike the bees, collecting materials for their manufacture. The ants, which have no wings do not alaborate the latter al very walls of Batavia, in the presence of our worthy governour general James Specx, when it roared for some days and nights, to the great terror of the neighbourhood. What relates to the Arength of this animal, I shall referve for another place on, they pick off from the fides of the

pour this calcined earth or runty, which alsoy carefully preferve for fale. It is used in lacin as a colimetic for deftroying hair, more especially by the weaten, when they backet.

The angiliaceous care Nor which turty is made, is found in great quantity in the province of Perfus called Ermon, as I have often been cold

by Persian and Armenian merchants, who came here to negociate a graff of the share they may make more profit of tutty, or tutyath, in the Persian language, of the items the stone and a cheaper powder, which they sell separately, as next the books of the stone and a stone books of the stone and a cheaper powder, which they sell separately, as mort books of the stone and a colour, an yelrand mort bad such or sellation and heros, shrups, and trees, like the trees, coleding

It is made of a glutinous earth like clay, which the Indians, who gather it, put into earthen poss made on purpose, much stronger than those in our country; and adding water to it, stir the whole carefully with a stick. Then they place them in surnaces till the water is evaporated. Afterwards, removing the dregs which remain at the bottom, they pick off from the sides of the pots the calcined earth or tutty, which they carefully preserve for sale. It is used in India as a cosmetic for destroying hair, more especially by the women, when they bathe.

The argillaceous earth, of which tutty is made, is found in great quantity in the province of Persia called Kirmon, as I have often been told

by Persian and Armenian merchants, who came here to negociate business, who that they may make more profit of tutty, or tutyath, in the Persian language, divide it other than the and a cheaper powder, which they sell separately, as when he says that tutty is produced from the ashes of a tree, This information, however, the confesses to have had from heartay.

the second state of the colour like the state of the

It is made of a glutinous earth like clay, which the Indians, who gather it, put into earthen pots made on purpose, much stronger than those in our country; and adding water to it, stir the whole carefully with a stick. Then they place them in furnaces till the water is evaporated. Afterwards, removing the dregs which remain at the bottom, they pick off from the sides of the pots the calcined earth or tutty, which they carefully preserve for sale. It is used in India as a cosmetic for destroying hair, more especially by the women, when they bathe.

The argillaceous earth, of which tutty is made, is found in great quantity in the province of Persia called Kirmon, as I have often been told

from it and on that account it is not forcen-

ly; for it has a very hard tongue. But if it be exasperated, it will toss up a man and horse like a fly, wholn it will kill at Helingrahile by the roughness of its tongue it lays besethe bones. The Moors eat the flesh of it; but it is very

N the York paragraph, the sauthor conference A that he never had feels the shinbeeros i but I have not only feen him an hundred times in his den, but also wandering throughs the woods! with Milis of a dark afficolour Wike the elephantin much, very rough, with deep bland anithe fides and backs It is to thick as to be simpeneurable by a Japan dagger! This beaft ibnaorwalmed with thields fas it is is commonly painted); whut thefenplants: counterfeir themed norhistoneopart of the Ikin harder than any otheriar Its shout referre bies a hole's but is more acute : find the flextremis evofewhicheds the horn, twhich has proqued it the denomination of belluabso The colour of the homidosmous, las blackeinhitser of fometimes afhocoloutedw The fite of its body in nearly the fame with that of the clophants only its legs are florter; and bione that account beit is not fo cont cord abline clemine alphand a gintheckubapiqi woked and not carnivorous like the tyger : but cate herbe and twigs, and thefe, too, very prick

ly; for it has a very hard tongue, But if it be exasperated, it will tols up a man and horse like . a fly, whom it will kill with Heleng, While by the roughness of its tongue it lays bare the bones. The Moors cat the fielh of it; but it is very hard, and requires the iron teeth of Plantinus. L shall give you an instance of us ferocity, A person of my acquaintance told me, that one day when he had gone out on horseback, with two men in his company, they found a female things ceres rolling beneaf in the mud, with her whelp in for this animal delights much in dirt; as well as the new and board affect beatt a prince feeing them, drofe, and secreating flowly, pushed the young jone before her with her facet; when pure of the company rathly perfeed her, and with a dagger firek her om the back. I No blood illing ed former but a little of the fkin being out off; there appeared broads white fireaks, risbich ble erentire fuffered patiently, till approachinged reightearing wood, the hid her whelp landing the trakes, vi Then winning round, and I grunning Horridly one made towards the riders buttoby good chance the horse, being frightenedulespel back. 193 The Thinoceros, Thowever, Thatched the hories trappings with his mouth, brother being of fille it south the rider in the meanitime fring at full fixed, and the orbinocoron harply oberlan ing and helperice uned hot femane nothing aincid this affociated who to kind ahe shoot the should be treis to blich werd fearcely at web feet alfunding of This impetatous dhinbeerospendling violation of the construction in the objects attacked the scompanious swhot sweet on foot (for they had fet theighionics to grazing oriehi their legs tied). But whether led by its natural flupidity, or impelled by fury, it fought to push its way betwixt the trees, which it made shake in a terrible manner. Their extraordinary thickness, however, refisted its violence, till the men, recovering from their terror, presented their musquets, and with repeated charges shot the wild beaft through the head. Then the Moorish slaves who had come to gather fuel, and been apprifed of the event by the rider, effectually killed it with axes, fwords, and spears; while the company, still quaking at their recent danger, inveighed against the temerity of the affailant. Thus happily they escaped the ferocious animal, which, scouring the forests in its agony, spreads ruin and confernation around. But this may fuffice of the rhinoceros. All is true which we are told

of the docility of the eliphant pland nothing lieb mains button dinario anterrop of Phiny, and Allians who have gain that the logs of the dephant agidestinute of joints and destinate Followhite mens have actioulations only latethe knees and haunchests the lelephant has them talfor at the middle of the legs of Moreguer (as Allauns well observes bissi probofcie ferves inflead of a hand both in taking its foodly and conveying at to its mouth, 101) tool their legs tied. But whether led by its natural stupidity, or impelled by fury, it sought to push its way betwixt the trees, which it made shake in a terrible manner. Their extraordinary thickness, however, refulted its violence, till the men, recovering from their terror, prefented their mufquets, and with repeated charges thot the wild beaft through the head. Then the Moorish flaves who had come to gather fuel, and been apprifed of the event by the rider, effectually killed it with axes, swords, and spears; while the company, still quaking at their recent danger, inveighed against the temerity of the assailant. Thus happily they escaped the ferocious animal, which, Scouring the forests in its agony, spreads ruin and conflernation around. But this may fuffice of the rhinoceros. All is true which we are told

therefore is less obnoxious to worms and putre faction, and is brought to us in the same state as to the shops wood is to the shops wood is of the shops wood is of the same state and big state of the same received, it has received it minds of it bably, it has received it minds of it in powder autes the choice ac which the natives

call mordexic and excellently heals all cold difor-bright and ni vlno ton beauthorg at boow-eso. A Sumatra fituate opposite to Java but grows plentifully, and of the best kind, in Champac, a country bordering on China, and likewife in Co-And although it is imported thence chinchina. into Holland without any bark upon it, fuch, however, is not its native state; but is a confequence of the frequent coalition of stems of various kinds of wood into one tree, as we have obferved to be the case in the benzoin. Nor will this circumstance appear extraordinary when we reflect, that trees of different kinds are united together by the art of ingrafting. The inhabitants separate the aloes-wood from the rest in the following manner. When the aloes are cut down, they lay the trunks of them in the slime and mud on the fides of rivers, that the other kinds of wood, become rotten, may separate from the calamba, or aloes. By this preparation the bark is confumed, being not so oily as the wood, which

therefore is less obnoxious to worms and putrefaction, and is brought to us in the same state as to the shope in our country. A The alece wood is of an aromatic and bitteriff tafte; whence, probably, it has received its name. A scruple of it in powder cures the cholera, which the natives call mordexi; and excellently heals all cold diffe ders of the fromach and intellibes. It also effect tually deliroys the tinese, and alcarides in children. "And lattly," it is died at fachfices, as filed cente, by the Chinese said all the heathen Mobiles chinchina. And although it is imported thence into Holland without any bark upon it, futhihowever, is not its native flate; but is a confequence of the frequent coalition of flems of various kinds of wood into one tree, as we have obferved to be the vale in the benzoin. Nor will this circumstance appear extraord hary when we reflect, that trees of different kinds are united together by the art of ingrariing. The inhabitants separate the aloes-wood from the rest in the following manner. When the aloes are cut down. they lay the trunks of them in the slime and mud on the fides of rivers, that the other kinds of wood, become rotten, may feparate from the calamba, or aloes. By this preparation the bark is confumed, being not so oily as the wood, which

with this fymptonbood he inhabitants affirm that this diforder proceeds from the green bark of faunders HEVER ecoffe Tir Rolling in Onds forth a poisonous fort of vapour which is hurtful to the brain, and quickly thousees ducic effects in prothe of a bad habit of body and who ale of a bed a body surface with the third paragraph, our author information, and the state of the s that a great deal of the pale and yellow launders grows in the island Tymor. Of the extraordinary effects of that wood I shall here relate yet had and incident as a seem of normood an account, which was given me by some of our banaire or a seem of the common to make an incident tate the bark, by
the incell of which, people who are experienced
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can determine whether or not they are mpe for
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cutting. I he author farther lays, that the fruit
of the faunders is nearly equal to the fize of a cherty. It is not unlike bay berries; for I have fome
of it dry, and it frams of a purple and mulberry
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allowed by, a round row shall ylnommon hand
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kind of thrifth, as are the befries of the afth in
our country, which, discharging it again by the
beily, plants the hills and vallies with young trees.

wollof year think and vallies with young trees.
Thence, although many thouland trees have been
cut down both by the Portuguele and us, yet the
com olls are year I say the and us yet the
com olls are never run out.

woods are never run out.

woods are never run out.

defend with a sumilud a bathel lefted with a bulimus and infatiable canine appetite, fo that they greedily devour any thing As the author mentions an ointment of the thing the author mentions are ointment of the thing the compowder of faunders, I mall here subjoin the compowder of taunders, I mall here subjoin the compowder of taunders, I mall here subjoint the composition of the subject of the composition of the subject of

with this symptom. The inhabitants affirm that this disorder proceeds from the green bark of saunders discrete carry cut. For then in the forth a poisonous sort of vapour which is hurtful to the brain, and quickly produces duck effects in people of a bad habit of body, and who use the ple of a bad habit of body, and who use the ple of a bad habit of body and who use the ple of a bad habit of body and who use the ple of a bad habit of body and who use the ple of a bad habit of body and who use the ple of a bad habit of body and who use the ple of a bad habit of body and who use the ple of a bad habit of body and who use the ple of a bad habit of body and who use the place of the place o

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petite fo that they greedily devour any thing and the second is put in their way, be it ever so nastly:

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polition of its for the beliefitrof young phylicithis diforder proceeds from the green bartens faunders tweetecosts cur. For the Kylling orth a possonous fairsvluq smirqo dariashingial to the brain, Of Betele Pynang Sirii Strii People of Brain, of Butele Pynang Cardinal Color people of the brain, of the betele Pynang Cardinal Color people of the brain, of the betele Pynang Cardinal Color people of the brain of the br IN the third paragraph Garcias fave that the -and a double of the same of the state of the same of eaution is very proper for the series attraction which is mixed with it would dot obashing of and palate. It is also to be con the it the mumought. It is also to be should be chewed, be chewed, be chewed. mough it gives a dirty colour, Hom the turniene which enters into the composition, yet the thell of le is very fragrent and whollome. It allays all immoderate heat of the body, whether occasioned by fevers, or the fun. It removes febrile rigors, My opinion of the upda of the sinds of the tonach, hope a cholera a squip word lich malticatory as greatly preferable to tobacco However, a long and continued use of it (and fuch is the cuftom in this country) not only erodes the teath, by the calx it contains, but even

Thefe are the Indian or Majabar nut.

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and people, who, as yet in their youth, had not a fingle focal terraining, by means of the first

pynag I igni dantala optime pulverifat, cale, which the Melor iiris & gnang & Of Betele Pynang & Company of the Melor Champac and th

IN the third paragraph Garcias fays, that they fait out the first juice, and I think such a precaution is very proper; for, otherwise, the calk which is mixed with it, would excoriate the gume and palate. It is also to be observed, that if the betele, and arecca without the calk, be chewed, betele, and arecca without the calk, be chewed, the wince pressed from it in mastication is of a green colour; but upon adding a small quantity of calk, the same juice becomes redder than blood. This circumstance of a redness in the spittle led the mast into a great mistake; for I thought it me at first into a great mistake; for I thought it proceeded from an hamptone.

by fevers, or the fun. It removes febrile rigors, and applied to the region of the said watering; and applied to the region of the said watering; and applied to the region of the said watering; and said was said literighted to to account the said water and strengthens the said water water and said water w

Thefe are the Indian or Malabar nut,

causes them to fall out. Nay, I have frequently feen people, who, as yet in their youth, had not a fingle tooth remaining, by means of the firii pynag, or betele, and arecca with the calx, which the Malaians call the head. Hence you will obferve the Javans, and other Indians, have empty spaces in their gums, which the richer fort fill with teeth made of gold. Besides, when the faufel nut, or the fruit of the pynang, which the Javans call pynang mouda, i. e. young, is not ripe, it quickly induces a giddiness of the head. This lymptom indeed vanishes on eating a little falt, or taking a draught of cold water : however, there is reason to infer, that a drug, which so immediately affects the feat of the foul, cannot be very falutary to the brain and nerves. To conclude, then. I would admit a moderate use of it, as a dentifrice and sweetener of the breath; but condemn the abuse of it, as much as of tobacco: for, in my opinion, it is the height of madness to ule, as aliment, a fubitance which has the efficacy of a violent medicine.

call is the cultomain this country) are only credes

tel ground Tarte are to hadien or Malaber nut.

On CHAPTER XX. uniavoury, and in talle resembles the cith made

little affected one of the the high

in Holland of boile sale 10 but I have been in

genuously told by those who shave cut of it,

DY permission of the governors, there are brought to this and the circumiacent islands, from Banda, large earthen pots, full of nutmegs preserved in vinegar and salt. These nuts, macerated for a day or two, and afterwards gently boiled, we preferve here with on taking a draw he of cold water : sowever rough

equilips so into, that a dring, which to immedi It is to be remarked of the preserved bark of this nut, and also of the nut itself, that they ought to be sparingly used in this country; because the oily and fat vapours which they raife up to the head, produce obstructions in the ventricles of the brain; hence, occasioning sleepiness, and even a stupor of all the members of the body. And farther, I have feen fome persons, who, from eating too much of this nut, have lain more than a whole day without the least degree of sense or motion, as if they had been in a carus; a manifest proof that the brain and nervous system were

fo example all of especial and some of example of some of supposed rule of some of example of the granter of the province of the granter of the province of the granter of the province of the carrier of the supposed of the supposed of the supposed of the carrier of the supposed of the s

What our author tells us, in paragraph 11th, of the green clufters of pepper being pickled with brine and vinegar, 1s true. And as there will be occasion to mention it afterwards, I shall just observe here, that the Indians call that pickle by the general name achar. In the same way are preserved green ginger, the roots of galangal, and the clusters of cloves; also, young cucumbers, which the Portuguele call agureas; besides mangos, with ontons, garlic and leeks; and

1 195 7

Banda, and even some of our people, boil a pulse of the gillax is a Trequency and us take resembles the dish made unfavoury, and us take resembles the dish made in Holland o' boile seep Pout I have been ingenuously to doy those who have eat of it, that per unously to doy those who have eat of it, that redested in ylao non boule seep of the seep of the

What our author tells us, in paragraph 11th, of the green clusters of pepper being pickled with brine and vinegar, is true. And as there will be occasion to mention it afterwards, I shall just observe here, that the Indians call that pickle by the general name achar. In the same way are preserved green ginger, the roots of galangal, and the clusters of cloves; also, young cucumbers, which the Portuguese call agureas; besides mangos, with onions, garlic and leeks: and

certainly nothing can be more proper in these places, both to excite an appetite, and promote digeftion VIAX on account of the heat and moifture of the air in this climate, the parts under the head, particularly the lungs and stomach, are infected with catarrhs, the native broom of the country, with Perfian and Surat capers, Topab Orta has condoqued auth rol as bemes lyle he lays, that the pods of the peace hang down from In paragraph 12th of whel fame chapter the author relates the ridiculous opinion of the Indians concerning the quality of peppersubut of fimilar to that soiton notice that direction and a similar to that soiton notice and the similar to the similar by joints, and inwardly fpungy, not hollow, but also in the leaves; only that they are not so much sharpened at the top, like a pyramid, but rather refemble a cone. The pods grow in this manner. An ear, at first green, springs forth from the root, like that of the nard; which, opening, discloses flowers refembling the brook-lime, except that they are mixt of a white and clay colour, of an aromatic and very fragrant flavour. When the ear ripens, it puts on the colour of harvest wheat; and within it are treasured the pods containing the feed, which is of a greenish white colour, beautifully intermixed with purple spots. On

certainly nothing can be more proper in these places, both to excite an appetite, and promote digeftion VIXX on R. ToT. R. A. H. OnenOnd moiflore of the air in whis climate, the parts under the head; particular and from the lead thomach, are infected with catarns, the snative brions of IN shotfarth paragraph of this chaptery Garcias anab Orta has committed a great miffaker when he lays, that the pods of the peafe hang down from this branches : For Islawho diave feen the cardamorn ogrow inorgreat equantity a thousand tirrites canualiran charit refembles reeds. Novemby is the fimilar to that plane in the stem, which is divited by joints, and inwardly spungy, not hollow, but also in the leaves; only that they are not so much sharpened at the top, like a pyramid, but rather refemble a cone. The pods grow in this manner. An ear, at first green, springs forth from the root, like that of the nard; which, opening, discloses flowers refembling the brook-lime, except that they are mixt of a white and clay colour, of an aromatic and very fragrant flavour. When the ear ripens, it puts on the colour of harvest wheat; and within it are treasured the pods containing the feed, which is of a greenish white colour, beautifully intermixed with purple fpots. On

becoming dry, it affumes the fearlet colour, in which it sporars anothe chappy But elsewhere, in my exolic Indian plants, I shall give you the hiflory of it, together with an accurate plate, which I have the honour of being the first who are mpred. The feed of the cardamons affects the line with a build and agreeable bette stand I ad a opinion this of all the countries do is the most beneficial to the florages and breaks for it deales has empreseume in the month or lineth, like the with what correctness the fridan stimulation for the h are Arabic) have been demented on their leaves. my indignation has fometimes been excited against our Europeans, and especially not own equiptrymen, who fearce ever valub g a thing but kir own, and will call thelepeople barbacians, although they can express their meaning much more larguically, in a few lignificant characters, than ourswith all their drawling periods, and superfluous multiplicity of words. And farther, notwithflanding the government of Java may appear to be defineric, yet to happily is it conducted for the exigencies of the nation, that any perion, who is not perfectly flupid and infenfible, may foon be convinced, that the compendious lystem of policy in this country is, that kings ihall govern well, and subjects obey still better.

becoming dry, it assumes the scarlet colour, in which it wooms Anathe Chappe 38 Hollewhere, in my exerte Indian plants, I shall give you the hiftory of it, together with an accurate place, which TOTE AND LINES O BOOK ICH Sprint his annot a shi tions depending behapter, to chartes at lat the Indiansbutice their leaves whom the leaves of this Testimologistes and formiron flyle a And this they postiging artificially asoso excel even the most bledd grad I ned When I have beheld with what correctness the Indian characters (which am Arabic) have been delineated on these leaves. my indignation has fornetimes been excited against our Europeans, and especially my own countrymen, who fcarce ever value any thing but their own, and will call these people barbarians, although shey can express their meaning much more laconisally in a few lignificant characters, than ours with all their drawling periods, and fuper furous multiplicity of words budned farther, notwithstanding the government of Java may appear to be despotic, yet so happily is it conducted for the exigencies of the nation, that any person, who is not perfectly flupid and infenfible, may foon be convinced, that the compendious fystem of policy in this country is, that kings shall govern well, and fubjects obey still better.

becoming day, it alkenes the Raclet colour

IIVXX RETTAHO nO

-stongs and ni Of Myrobalans

IN the fourth paragraph, Gracias ab Orta ob :: Tallave frequently feen the fruit called in Euod rope, the emblick; and bellevick my tobalansem grow here in Java . and befide the common kinds of with the feen another; and the world will be all with the world wi try. It is of a round agency finalpland equily 15 without chaineling owndobies? It referribles thefat other mydobalans, however, with the tribile heaven of and tafte, only partakes not of their purgative quality, and is somewhat more astringent upon the palate. These myrobalans are in daily use with us in the hospitals, for those who are ill of a dysentery, or cholera. In bilious, febrile heats, they are also of great advantage; and what crowns their perfections, they excellently refift putrefacthe government of Java may appear to be dinoir tic, yet to happily is it conducted for the exigencies of the nation, that any perfor, who is not perfectly flugid and infentible, may foon be core vinced, that the compendious fysheri of policy in this country is, that kines thall govern well, and fubjects obey flilt besser.

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ON CHAPTER XXVIII.

of Tamarinds.

N the fourth paragraph, Gracias ab Orta obferves very justly that the leaves of the tamarinds are minutely notched, and refemble the shape and colour of the white chiches. He adde to with equal juffice, that they are good against the eryfipelas, being affringent, drying and cold! Invit taffy they exactly refemble wild forrely whence w they are highly useful in dysenteries and choleras 10 and tafte, only partakes not of their purgative quality, and is tomewhat more aftringent upon These myrobalans are in daily use the palate. with us in the hospitals, for those who are ill of a dysentery, or cholera. In bilious, febrile heats, they are also of great advantage; and what crowns their perfections, they excellently refult putrefaction.

In the functionager, a chiculous opinion is related, majority, that the cases here labour under a continual louteness, by scaling on the leaves of

dangerous.

the cassa tree, &cc. But in my opinion, the real cause of this slux is, that the places situate under or near the potential are and are the potential at the place of the area as I have essewhere remarked, which exciting the factor of the intestines and twee Orta ob-

I Have scarce any thing else to remark upon this chapter, than that when the author mentions the places where the casia grows, he has omitted Java, in the woods of which it is produced in great abundance. Much use is made of this pulp, among the Malaians, in disorders of the urinary passages, as also in an infected gonorrhea, with the addition of a little powder of boiled turpentine. However, I would not venture to exhibit it in the true dysentery, which is here extremely frequent, nor in the cholera, without great caution; because, like manna, it is easily converted into bile, and therefore, would render more mortal a disease of itself exceedingly dangerous.

In the same chapter, a ridiculous opinion is related; namely, that the cows here labour under a continual looseness, by feeding on the leaves of the casia tree, &c. But in my opinion, the real cause of this flux is, that the places situate under or near the equator. Fare covered with a hot and moist atmosphere, as I have elsewhere remarked, which exciting purposation in the bowels, induces sluxes of the intestines and liver.

Have scarce any thing else to remark upon this place chapter, than that when the author inentions the places where the casa grows, he has omitted Java, in the woods of which it is produced in great abundance. Much use is made of this pulp, among the Malalans, in disorders of the urinary passages, as also in an infected gonorrhea, with the addition of a little powder of boiled turpentine. However, I would not venture to exhibit it in the true dysentery, which is here extremely frequent, nor in the cholera, without great caution; because, like manna, it is cassily converted into bile, and therefore, would render more mortal a disease of itself exceedingly

In the same chapter, a ridiculous opinion is related; namely, that the cows here labour under a continual looseness, by feeding on the leaves of the cassa tree, &c. But in my opinion, the real cause of this flex is, that the places ficuate under

OHXXXH A B T B R HXXXIII

.b. Of Calamus Aromatious, & the Sweet Flag. home

ESIDE the many important medicinal purpoles for which calamus aromaticus is employed, it is used by the Malaian women in their kitchens, for drelling fill and fielh, together with the roots of ginger, turmeric, galangal, and other the part as it grows on the mountains about fourfood, and affilt digettion. And here by the way, let me observe that these hations, though called Barbarous by the people of our country, excel both the Poles and Germans in picking hill, who have the afturance, however, to arrogate the furafterwards make a fyrup, extremely add no figoring in cold affections of the bowels, as in obstructions to The author Tays, that calamus aromaticus is Neither galangar not actives to very well midely, Many of the scolor and galangal dight, 999 the that series of their leaves, to be referred to the current and calamin aromaticus is i pedies of that vinegar, and this fyrup of nard gen hardskin inwardly, or externally applied, is of great efficacy against the bites of venomous creatures, as

This I discovered by an experiment upon a per-

Of Calamus Archinguis, to the Sweet Flag.

HE Indian nard grows in great quantity in Java, and is used in the kitchen for the fame purposes with calamus aromaticus, and the fweet-fmelling rush namely, in seasoning their broths I have never yet feen a green plant of the nard as it grows on the mountains about fourteen leagues from the city of Batavia. For we cannot venture on such an excursion on account of the Javan robbers, and typers. We here in fule the pard in vinegar, in the manner of dry marygold leaves in our country; of which we afterwards make a fyrup, extremely advantageous in cold affections of the bowels, as in obstructions of the liver, spleen, and mesentery of the Jaff of which are for frequent in this country, that many people die of a mortal maralmus, incurred from that cause, without any pain, however, as I have remarked in my method of cure but am sertain that vinegar, and this fyrup of nard, either taken inwardly, or externally applied, is of great efficacy against the bites of venomous creatures, as

ferpents, the scolopendra, scorpions, and the like. This I discovered by an experiment upon a person who was bit by the serpent which the Portuguese call Cobra de Capello, the booked snake; the bite of which is so venomous that the Portuguese actually regard it as the bashist and upon of that it shall speak afterwards: to bail any viso it daily one that it shall speak afterwards: to not shall speak afterwards to not shall speak afterwards.

n Dahail add nothing farther of the tweet-fmely ling ruth, than that the author is mittaken, who flyspithat the Indians make no other afe of he than bedding itheir harles, when it is even when the felsfordings infood, m as in the mealathus afromaticus? Wherefore, withough is grows plentifully in I the washing it of the washing the washing and the by the Maldivian women, and is highly benefit cial against female diforders, in baths and formen tations I And as it is a species of grafs of which evenothed most common kind is celebrated files medicinal qualities, who can deny that this must nifettly arothetic grass possesses far more established through the middle, you will perceive theolesiv ginning of as many fibres as are in the hellebore. That this root is adulterated, as the author fays, I do not believe. For I have feen a whole picol, which contains an hundred and twenty pounds, fold by auction for ten reals.

ferpents, the scolopendra, scorpions, and the like. This I discovered by a French upon a perfon who was but by the ferpent which the Portugue le call Cobra desla colle booded funke; the bire of which is so venomous that the Portu-Withis chapter the authorisations, that there is only one kind of castus, which I also affects For the distinction of three kinds, into which is was divided by the older phylicians, lad been owing to the different appearances of the fame soil this, which grows carious by age of The motion coffus are brought here from Cambodial in gireat! quantity as it is a medicine much used by all the Indiana and particularly the Chinefe andelis called by the Indian merchants Bucho; and by the Chinese Possioks This costus has vallethed characters of dithati described in this chapterio When I first faw the root of the costas, I image gined it to be the white hellebore fland behould ftill have been of that opinion but for the fineller numbly author of the posterior the modern authorise through the middle, you will perceive the beiv ginning of as many fibres as are in the hellebore. That this root is adulterated, as the author fays, I do not believe. For I have seen a whole picol, which contains an hundred and twenty pounds, fold by auction for ten reals.

The author, in another chapter, bestows many deserved encomiums on the China root. I shall only aid to them; that this toot, beside being of use in venereal affections, is advantageous in all chronic difeases, which are prevalent, as the cachexy, leucophlegmatia, dropfy, and in the es of palfy called the barbiers; as I experienced in myfelf, as well as others, when I was ill of that disorder four months, and, before I began the use of the China, could not move my the gardens. It has an oblong leaf, product the that of the cardamom, to which it is otherwise not unlike. In the flem, however, it is different; the cardamon being divided with joints, as a reed, but the turmeric imall and equal I am suprised that Garcias ab Orta has and so little of this poble plant, as it is the most wed of any in all India. It has got the name of failten, not for having any fimilitude to that of England, which is the best in the world but because the root of it, like the true laffron, there of a vellow through the middle, you will procise eleches ganing of as many fibers as are in the hellebore. That this root is east it Salties is come, which

ly audition for ten reals.

The authors in a anther chapters before the investment of the China topt. If that on the China topt. If that on the China topt.

Of Indian Saffron, or Turmeric.

HE Indian faffron, which the author here describes, is nothing else than the root called Turmerie in our country. It grows to plentifully in the woods, that thips might be loaded with it; notwithstanding which it is cultivated in the gardens. It has an oblong leaf, broader than that of the cardamoni, to which it is otherwise not unlike. In the ftem, however, it is different; the cardamom being divided with joints, as a reed, but the turmeric small and equal. I am furprised that Garcias ab Orta has faid to little of this noble plant, as it is the most used of any in all India. It has got the name of faffron, not for having any similitude to that of England, which is the best in the world; but because the root of it, like the true faffron, tinges of a yellow colour.

The Portuguese call it Saffran da tierra, which is to say, subterraneous saffron. The Malaians call it Borbory. It has a beautiful purple flower,

which makes its appearance at the top of the plant, and refembles that of the corn-flag. I will be and wrable that what he lays towards the end of the chapter, of his being of opinion that the root of the curcuma may be taken inwardly without any detriment, ought to be changed into, boldly taken; for there is no other preferve fo much pied by the Indians in dreffing their food. b Resides is is of the highest wility as a medicine, administered por only sopically but interpally, in all obstructions, of the bowels and melentery. of frequent in this squarry; in complaints like wife, of the urinary passages. In female diforders no medicine is so much celebrated by the Malaian women as borbory. In facilitating the birth it is a fovereign remedy: in complaints of the uterus it is specific. And to confirm this opinion by my own experience. I have in reality found nothing to beneficial in all the diforders above-mentioned, as this most excellent remedy.

root of it, like the true faffron, tinges of a yellow colour.

The Portuguele calf it Riffran da tierra, which is to fay, finbrergneous faffron. The Malaians calf it Borbary. It has a beautiful purple flower,

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And because and residents with the rothers and a few glifficht over 1 few glifficht out 1 few glifficht in all the disorder out 1 few gliffich

In the third paragraph, mention is made of the ferpent which the Portuguese call Cobra de capellos. That supent, when initiated, displays upon its hockers of a yellow, constitued up to nours, of a yellow, condour, like what the sugs pull forth when they

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This ferpark is back of a black colour, and the finger; with its back of a black colour, and its belly of a dirty yellow.

Sthe author, in this chapter, has treated fuf-Nichin chapter, the author recommends frakeion award as beneficial in the paroxyims of intermitting fevers and I myfelf have oftener than once experienced the advantage of fuch practice especially in the fever of Tymon attended with defiridin and phrenitis all The fnake wood is fix premaly colore in its texture; therefore on when the Indianomicolt, they Irubait trongly with water appoint piecel of marble din order to bruile it and then administer it to the fick in water, or any other liquoris In taftes it is far more hitter than the alocs of Ious good against the tinea and ascaridesymandis a powerful antidote against the bite into the body, a very tight anutago auo monovini his arm, which occasioned such intolerable pain, nanimobe third paragraph mention is made of the sempent which the Portuguese call Cohra de capeldoin That ferpents when irritated displays upon ico hock and pulled up sumous, of a yellow colour, like what the frogs push forth when they croak: and perhaps these bullæ, or tumours, raised in our author's mind the idea of a crown. This serpent is not much thicker than a man's little singer; with its back of a black colour, and its belly of a dirty yellow.

What is related; in the following paragraph of a battle betwier a ferrer and this derpent, wis not improbable as I have feen fakes of this kind killed by cars; owho, nowithflanding, noven eat of their field, although they greedily devous other kinds of lerbents, especially the aquaticu The fol lowing anecdote may prove the poisonersy hature of this frecies of ferpent ! I faw a Moon who had been cutting forme of the reeds which the Indians call Pottale, and which lerve them inflead of robes. He was bit in the thumb by one of these perpents. The mark, however, was fearcely! perceptible. To prevent the venom from making its way far into the body, a very tight ligature was purround his arm, which occasioned such intolerable pain, as to oblige it to be nackened of The prominan immediately expired, and his body fwelled in a hideous manner? 11 So inftantaneous, on reaching the heart, were the effects of the virulent poiloni lour, like what the frogs puth forth when they

weight; you may be on tilently ideliane of tugoupe, tablished in our author's mind the idea of a crown.

- in a an On TEHAPTER XLV. and aid T

the fixth paragraph, Gardindaysothan, had bezoar is producing to but other places there mentioned: however, fince no body;

N the second paragraph of this chapter, the author fays, that within the true bezoar frones there is chaff, or fome fuch fubitance and that, if on the outer coar being abraded, there incceeds not another circle in the manner of an onion, till the chaff be laid bare, the flore is certainly factitious. But the adulteration of it may be better discovered by the following methods ? If you rub the stone with a little lime, and the part so rubbed flould appear of a red colour, it is certain that the flone is genuine. W Again, if after carefully weighing the ftone, you put it into a bason of water, and when it has remained there two or three hours, you try it a lecond time in the ball lance, and find that it is neither increased nor diminished in its weight, it is the true bezoar stone. But, if on being rubbed with lime, it fhould betray any rife; or, when taken out of the water. fould be found either increased or diminifhed in very much relembling faffion and hermodactyls,

Weight; you may confidently declare it to be

ON CHAPTER XLV.

In the fixth paragraph, Garcias fays, that the bezoar is produced not only in Perfia; but other places there mentioned! however, fince no body; as far as Liknow, has hitherto given the origin of that flone, nor described how, or in which way it is produced I shall here deliver a short account of it. The Perlians, then, call this ftone Parzahar a word compounded of pa and gaharan the first of which significa erainst and the second possion, and, when joined together, are equivalent to the Greek derivative antidore. We may here fee the fallhood of those enymologists, who would deduce the name of this from pazzi or ba zar, when such a stone was never feen to be fold The bezoar flone is produced in Perfigion the manner I am about to relate, as I have been after furedly informed by Perlian and Armenian men lance, and find that it is neither in libera to sinch

minished in its weight, it is the true becoar stone and an all all all all and a stone of the distance of the

Many Books of goess are saled sampature in the fame fields in the flomachs of which; from eating this lierke these Adnes, are generated as which are for much valued, by the kings of Perfia, above what are produced in other places othat the great Xa Abas, the last emperor of the Perfians, who died in 1628, ordered watchmen to be placed there, to preferve for him all the bezoar flones exceeding a certain weight to For this origin of the bezoar, I have not only the testimony of the Berlian and Armenian merchants, but also of Pi Textira, a Portugueld whos in an clogain treatifes in the Spanish language, flon the history of the kings of Perhap relates that there is an island between Ceylon and the Coromandel coast, which the Portuguele call Isla de Vacaso the Isle of Cowe, known also to our pilots, where there is tikewise produced a great quantity of bezoar flone, by goars which are kept there for the purposed And the fame author relates that in the year 1983, when a terrible delige overflow chi the Coronandel coaft, and the Iffa de Vacas ind particular was wholly covered with water, fuch of the goars as were faved by transports cion; gave vover breedings the bezoar tones, as

very much relembling failiron and hermodactyle;

none of the herb which produces them? but a few years afterwards, when the idland refuned its ufual verdure, and the goats were re-imported to browgerou their womed food, they produced the flones as before.

hans, who died in 1628, ordered warehmen to ed thought proper to relate these facts, as they are confirmed both by our own and the English merchants di With regard, however, to the hyper obblical victues, and firange efficacy, attributed to thefe stones; acthousand inflances will piffiff my detraction no Besides and amonot by manifes so prone-to-credulity, as eafily to admit the fuper fitious accounts of audicines, till I wind thefti confirmed by experiences But you may believe as a truth withat thefer flores occasion as would uncaliness to the goats, as those of the kidneys and bladder to men. These goats are not much unlike, the European except that their home are longer, and crest of The skins of some of them are beautifully spotted like the tyger of which kind we have two in the fort of Batavia is The goats flee with smore sorveles calc according to the fire and number of the flones, which then

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contain; a circumstance well known to the cunning Armenians and Perlians. I have also feen Pa-zahar stones bred in the stomachs of apes. They are of a tapering thape, fometimes longer than the finger, and effeemed the most valuable IE Malacca flone, which the author-lie 20 curiorily mentions, recalls, to my remembrance another fort of concretion a contred in the gall of hogs, and also in the stomachs of poicupines with long feathers. The Portuguele call this stone Piedra de Puerco. It is intranditat to the touch, like, Spanith loap. I have two of them in my cuftody; one taken out of a porcupine, and the other from a boar. This stone is infused in wine for the cholera, which the Islanders call Mordexi, and regard with as much borror, as the Dutch do the plague, on account that it, sometimes kills people in a few hours a This stone, however, is dangerous to pregnant women, and may occasion abortion : for I have been told by the Malaian women, that when their menternal purgations proceded not rightly, and they only held this from in their hand, they have found benefit from it. But realize when I reflect on the opinion of mankind, concerning

these stony concretions in the fromachs and cavi-

dotain of the unitable well known to the cur-

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THE Malacca stone, which the author here curforily mentions, recalls to my remembrance another fort of concretion generated in the gall of hogs, and also in the stomachs of porcupines with long feathers. The Portuguele call this stone Piedra de Puerco. It is soft and fat to the touch, like Spanish soap. I have two of them in my custody; one taken out of a porcupine, and the other from a boar. This stone is infused in wine for the cholera, which the Islanders call Mordexi, and regard with as much horror as the Dutch do the plague, on account that it sometimes kills people in a few hours. This stone, however, is dangerous to pregnant women, and may occasion abortions: for I have been told by the Malaian women, that when their menstrual purgations proceeded not rightly, and they only held this stone in their hand, they have found benefit from it. But really, when I' reflect on the opinion of mankind, concerning these stony concretions in the stomachs and cavi-

ties of creatures voids of reason, its appears to me very unaccountable, that the fronts found in the human bladder and kidneys, and those which are discharged with the urine, should be held in no eftimation; feeing that man is a much nobler ani mal, and lives on more delicate food. It is certain that there are circles in these concretions, refembling what are found in the bezoar. When you rub the external furface, it is foft and friable (which is also the case in the bezoaf) till you are rive at a small nut in the centre of these circles which shows evidently by the redness of its colour, that it derived its origin from the kid shall say nothing farther of these concretions, lest I should appear to depreciate the bezoardic stones, and encourage lithotomists to a dangerous zeal for operations. This, at least, I know, that the stone found in the human bladder, greatly promotes urine and fweat. I remember to have exhibited it in 1624 and 25, in a scarcity of the bezoardic stone, during the terrible plague which ravaged my native Leyden, and the other cities of Holland: and I politively affirm, that when mixt with theriac, or mithridate, and a few drops of the oil of amber, or juniper, I found it

there from concretions in the flormaths and cavi-

a more excellent and efficacious fudorific than very unaccountable, that thibfordstandalso taits human bladder and kidneys, and those which are of Phylicians of the prefent age will readily admit that a disphorefis might he produced by these medicines, without attributing the smallest effect to the human calculus which entered into the composition. It is indeed surprising, that a person, who intimates to strongly his opinion of the futility of the Bezoar stone, in opposition to the reigning prejudice of his times could fink the the weakness of imagining any superior quality in a substance of equal infiguificance. But the fashion in physic countenanced the most capricious conceits; and such angedotes, while they amuse the reader, serve to guard against the whimsical extravagance in which the understandthat it derived its origin from the kidneys of that fay nothing farther of these concretions, left I should appear to depreciate the bezoardic stones, and encourage lithoromists to a dangerous zeal for operations. This, at leaft, I know, that the stone found in the human bladder, greatly promotes urine and fweat. I remember to have exhibited it in 1624 and 25, in a fearcity of the bezoardic flone, during the terrible plague which ravaged inv native Leyden, and the other cities of Holland: and I politively affirm, that when mixt with theriac, or mithridate, and a few drops of the oil of amber, or juniper, I found it

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In the fixth paragraph the author speaks of the flowers called Sula Mogori. These slowers grow upon a copse not unfit for making hedges. it scarcely exceeds the height of a man, and produces slowers extremely fragrant and beautiful. A distilled siquor is made of the slowers of the tree pariz, and this shrub, which is very cordial and therefore affords extraordinary assistance.

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SECOND BOOK of GARCIAS ABORTAL

On CHAPTER alpho suonev

but is iomewhat more thick. The flowers are of

that when first taken from the erec, they seem like a lirde bundle of leaves; but the stamma in the

THE Portuguese give this shrub the name of Arvore da Notte, because it expands its slowers in the night. These are copiously produced in Java, and brought to market by the slaves, for making chaplets, and wreathing in the hair of the Malaian women.

In the fixth paragraph the author speaks of the flowers called Sula Mogori. These flowers grow upon a copse not unfit for making hedges. It scarcely exceeds the height of a man, and produces flowers extremely fragrant and beautiful. A distilled liquor is made of the flowers of the tree pariz, and this shrub, which is very cordial, and therefore affords extraordinary assistance

in the faintings frequently attending continual fevers, the cholera and dysentery. A MI I M

The author afterwards mentions the flowers he calls Champe, but which the Javans name Champacea together with the tree that produces them The leaf of this resembles that of the peach-tree, but is fomewhat more thick. The flowers are of various colours; for fome are of a pale green, fo that when first taken from the tree, they feem like a little bundle of leaves; but the stamina in the calyx, which are nearly fuch as in the role, evince them to be flowers. Others of them are of an orange colour. All the flowers are equally odoriferous, but affect the head with heaviness, as camphire does those who are unaccustomed to it. The author also says, that the Indians are greatly addicted to perfumes. He might have added all the Mahommedans. So that you can scarcely ever fee any Indian women go abroad, without a charlet of these flowers on their heads, or wreathed in their hair, to render them more agreeable to their hulbands, and often their lovers.

A diffiled liquor is made of the flowers of the tree parts, and this florab, which is very cordial, and therefore, affords extraordinary affiliance

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On CHAPTER III.

Of Negundo and Lagondi, or Eastern Privet.

Alpinus, under the name of Egyptian Privet, and Alcanna; and certainly it much refembles it in the leaves But its branches ftretch farther out, like our water-willow; and the berries, which fucceed the flowers, are not to numerous as those of the privet, or whortles. When ripe they are black; and the colour of the flowers is various, while the flowers of this Indian privet are of a pale blue; and those of the privet in Holland more white than snow: whence Virgil,

Alba liguitra cadunt : Vaccinia nigra leguntur.

For the whortles are the berries of the privet.

This thrub is likewise more fragrant than the privet; on which account it is deservedly ranked among the aromatics. That Prosper Alpinus confounds this privet with the alcanna, might

arile from their being confidered indiscriminately in Egypt. For the leaves of the alcanna are fimilar to thole of the privet, only lomewhat less. Belides, the leaves of the alcanna fram of a beautiful red colour, if they are bruifed with a little lime, upon marble, and macerated a night With this paint, the Javans of both fexes stain their nails and lips; and the Persians and Turks elegantly dye the tails of their horses with this red colour. Both shrubs grow in Java. They are carefully cultivated in the gardens, and held in fo much esteem by the Indian nations, that they are used in almost all diseases, in baths, fementations, and poultices. Nay, they look upon them almost as divine: and certainly they well fupply the want of melilot and camomile in this country. I am confident that a better discutient than the leaves of these shrubs is not to be found: and in all pains, even those which are inveterate, they are highly anodyne. A fomentation of them promotes the menstrual discharge, facilitates the birth, and cures all diforders of the uterus. Inwardly taken, this medicine provokes urine, affords relief in complaints of the kidneys and bladder,

and affuages the pains of the cholic. In word, the panacea of the antients was nothing of the leaves. The author calls this thrub this of the physet. The author calls this thrub Negundo and Niergundo; but the Javans a beautiful red colour, if they are bushed with little lime, upon marble, and macerated a night in water. With this paint, the Javans of both fexes flain their nails and lips; and the Persians and Turks clegantly dye the tails of their horfes with this red colour. Both shrubs grow in Java. They are carefully cultivated in the gardens, and held in formuch esteem' by the Indian nations, that they are used in almost all diseases, in baths, fomentations, and poultices. Nay, they look upon them almost as divine: and certainly they well supply the want of melilot and camomile in this country. I am confident that a better discutient than the leaves of these thrubs is not to be found: and in all pains, even those which are inveterate, they are highly anodyne, A fomentation of them promotes the menstrual discharge, facilitates the birth. and cures all disorders of the uterus. Inwardly taken, this medicine provokes urine, affords relief in complaints of the kidneys and bladder,

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Oh CHAPATER BY.

of the Jasca Fruit.

The LDE the species of jaaca here described, it where likewise grows another in Java, on a very chigh and thick tree, with leaves resembling those of the plane, but smuch greener, and not covered with down and tablears fruit far less than the other Jaaca, and not of the same kind, but of somewhat a finer taste, which bargs not from the trunk, but the branches in This fruit is faufeating, and, as the author observes, unwholsome.

Carduis & Spinis furgit Paliurus acutis.

In respect of quality this fruit is cold and dry; and is therefore of advantage in the cholera, dysentery, and ardent severs; the heat of which it allays, and restrains the orgasim of the bile. Whence we here make a syrup of it, no less useful than the juice of acacia, so much celebrated by the ancients.

On CHAPATER NO

int Of a Jangomas. 10

Till ID jangomas are subjected of the floe-free, or or black thorn, such as in Holland we call sleened When ripe they are of a yellow colour; sleened When ripe they are of a yellow colour; whereas ours are of a dark purple. The jangomate of a dark purple. The plant mas have a very afterior the indight of a cherry-tree, and is prickly whence Proper Alpinus called the trunk, but he breek light was features, and, as the author observes, unwholsome

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Of the Carambola.

I Am furprised that Garcias ab Orta has given fo flight a description of this tree, as the fruit which it produces deserves to be ranked among the most wholsome in India. The leaves of it are fomewhat similar to the prune, and underneath are white like the poplar. It bears flowers of a beautiful pale red, the fize of which, as contained in clusters, is about equal to that of the flowers of the pimpernel, When the flowers fall off, they are succeeded by oblong quadrangular pods, a pentagonal space often intervening betwixt the different parts, as in the pods containing the feed of the corona imperialis of Clufius. The tafte of this fruit is subacid and astringent. Before maturity, it is pickled with brine and vinegar, as we have observed of other kinds. A fyrup is also made of it, which, like that of billingbing, is of advantage in the cholera, dysentery, and ardent fevers; for which purposes it is preserved with sugar by the Chinese. The fruit, when ripe, is of a yellowish colour, and sweet vinous taste.

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